```
* * * * * * * * * *  Welcome to STN International  * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
                   (ROSPATENT) added to list of core patent offices covered
 NEWS  4  FEB 28   PATDPAFULL - New display fields provide for legal status
                   data from INPADOC
 NEWS  5  FEB 28   BABS - Current-awareness alerts (SDIs) available
 NEWS  6  FEB 28   MEDLINE/LMEDLINE reloaded
 NEWS  7  MAR 02   GBFULL: New full-text patent database on STN
 NEWS  8  MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  9  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  10 MAR 22   KOREAPAT now updated monthly; patent information enhanced
 NEWS  11 MAR 22   Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  12 MAR 22   PATDPASPC - New patent database available
 NEWS  13 MAR 22   REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  14 APR 04   EPFULL enhanced with additional patent information and new
                   fields
 NEWS  15 APR 04   EMBASE - Database reloaded and enhanced
 NEWS  16 APR 18   New CAS Information Use Policies available online
 NEWS  17 APR 25   Patent searching, including current-awareness alerts (SDIs),
                   based on application date in CA/CAplus and USPATFULL/USPAT2
                   may be affected by a change in filing date for U.S.
                   applications.
 NEWS  18 APR 28   Improved searching of U.S. Patent Classifications for
                   U.S. patent records in CA/CAplus

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:48:48 ON 13 MAY 2005

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'REGISTRY' ENTERED AT 16:48:54 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)
```

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************
```

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

```
=>
L1      STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1              STR

=> s l1
SAMPLE SEARCH INITIATED 16:52:03 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     22 TO ITERATE

100.0% PROCESSED      22 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          159 TO      721
PROJECTED ANSWERS:               0 TO        0

L2            0 SEA SSS SAM L1

=> s l1 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 16:52:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    523 TO ITERATE

100.0% PROCESSED     523 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.01
```

```
L3            1 SEA SSS FUL L1

=> file hcaplus
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                           ENTRY    SESSION
FULL ESTIMATED COST                                       163.05     163.26

FILE 'HCAPLUS' ENTERED AT 16:52:10 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 13 May 2005  VOL 142 ISS 21
FILE LAST UPDATED: 12 May 2005  (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l3
L4            1 L3

=> d l4

L4   ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
     Full Text   Citing References
AN   2000:441776  HCAPLUS
DN   133:73938
TI   Preparation of 3-(3,4-dihalophenyl)-2,6-dioxopiperidine-3-propionic acid
     alkyl esters as intermediates
IN   Castro, Bertrand; Dormoy, Jean-Robert; Rabion, Alain
PA   Sanofi-Synthelabo, Fr.
SO   PCT Int. Appl., 34 pp.
     CODEN: PIXXD2
DT   Patent
LA   French
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   WO 2000037445        A1    20000629    WO 1999-FR2970          19991201
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
```

```
            DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
            CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     FR 2787448          A1    20000623    FR 1998-16087          19981218
     FR 2787448          B3    20010112
     CA 2350683          AA    20000629    CA 1999-2350683        19991201
     EP 1140842          A1    20011010    EP 1999-973487         19991201
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     JP 2002533327       T2    20021008    JP 2000-589517         19991201
     US 6469173          B1    20021022    US 2001-857882         20010612
     US 2003032810       A1    20030213    US 2002-175126         20020619
     US 6686182          B2    20040203
     US 2004110796       A1    20040610    US 2003-727475         20031204
PRAI FR 1998-16087       A     19981218
     WO 1999-FR2970      W     19991201
     US 2001-857882      A3    20010612
     US 2002-175126      A3    20020619
OS   CASREACT 133:73938; MARPAT 133:73938
RE.CNT  4     THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT


=> d l4, ibib abs hitstr, 1

L4   ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
```

Full Text | Citing References

```
ACCESSION NUMBER:         2000:441776  HCAPLUS
DOCUMENT NUMBER:          133:73938
TITLE:                    Preparation of 3-(3,4-dihalophenyl)-2,6-
                          dioxopiperidine-3-propionic acid alkyl esters as
                          intermediates
INVENTOR(S):              Castro, Bertrand; Dormoy, Jean-Robert; Rabion, Alain
PATENT ASSIGNEE(S):       Sanofi-Synthelabo, Fr.
SOURCE:                   PCT Int. Appl., 34 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 French
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.        DATE
     ---------------      ----   --------    --------------------   --------
     WO 2000037445         A1    20000629    WO 1999-FR2970         19991201
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
             CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL,
             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
             MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI,
             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
             AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     FR 2787448          A1    20000623    FR 1998-16087          19981218
     FR 2787448          B3    20010112
     CA 2350683          AA    20000629    CA 1999-2350683        19991201
     EP 1140842          A1    20011010    EP 1999-973487         19991201
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO
     JP 2002533327       T2    20021008    JP 2000-589517         19991201
```

US 6469173	B1	20021022	US 2001-857882		20010612
US 2003032810	A1	20030213	US 2002-175126		20020619
US 6686182	B2	20040203			
US 2004110796	A1	20040610	US 2003-727475		20031204
PRIORITY APPLN. INFO.:			FR 1998-16087	A	19981218
			WO 1999-FR2970	W	19991201
			US 2001-857882	A3	20010612
			US 2002-175126	A3	20020619

OTHER SOURCE(S): CASREACT 133:73938; MARPAT 133:73938

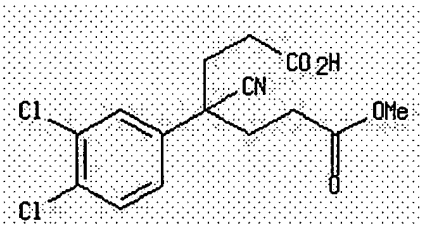
AB Title compds. and optically pure isomers were obtained either by enantioselective enzymic hydrolysis of the racemic ester or by cyclisation of optically pure HO2CCH2CH2CR(CN)CH2CH2CO2R1 (R = 3,4-dihalophenyl, R1 = alkyl).

IT **279215-35-9P**
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 3-(3,4-dihalophenyl)-2,6-dioxopiperidine-3-propionic acid alkyl esters as intermediates)

RN 279215-35-9 HCAPLUS

CN Heptanedioic acid, 4-cyano-4-(3,4-dichlorophenyl)-, monomethyl ester, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=>
L5 STRUCTURE UPLOADED

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	10.94	174.20
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

FILE 'REGISTRY' ENTERED AT 16:53:37 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

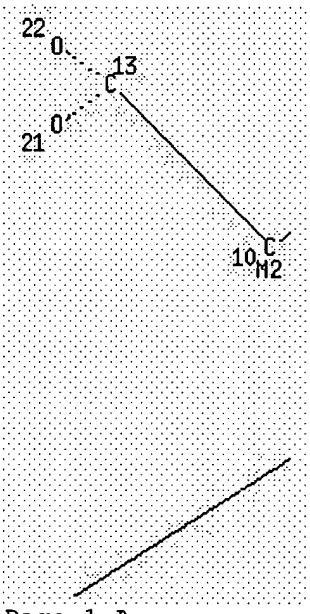
Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0

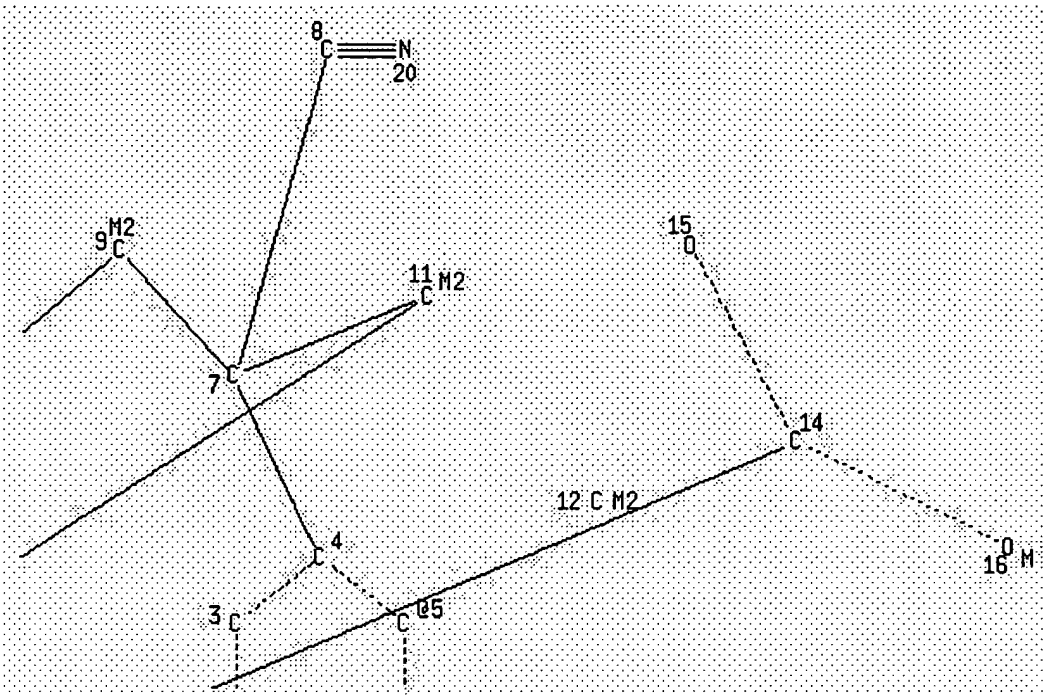
New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L6      STRUCTURE UPLOADED

=> s l6
SAMPLE SEARCH INITIATED 16:53:51 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     21 TO ITERATE

100.0% PROCESSED      21 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          146 TO      694
PROJECTED ANSWERS:               0 TO        0

L7            0 SEA SSS SAM L6

=> s l6 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 16:53:55 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    506 TO ITERATE

100.0% PROCESSED     506 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.01

L8            1 SEA SSS FUL L6

=>
L9      STRUCTURE UPLOADED

=> s l9
SAMPLE SEARCH INITIATED 16:54:47 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     21 TO ITERATE

100.0% PROCESSED      21 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
```

```
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          146 TO      694
PROJECTED ANSWERS:               0 TO        0

L10           0 SEA SSS SAM L9

=> s l9 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 16:54:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    506 TO ITERATE

100.0% PROCESSED     506 ITERATIONS                              1 ANSWERS
SEARCH TIME: 00.00.01

L11           1 SEA SSS FUL L9

=> s l11 not l8
L12           0 L11 NOT L8

=>
L13     STRUCTURE UPLOADED

=> d l13
L13 HAS NO ANSWERS
L13                STR
```



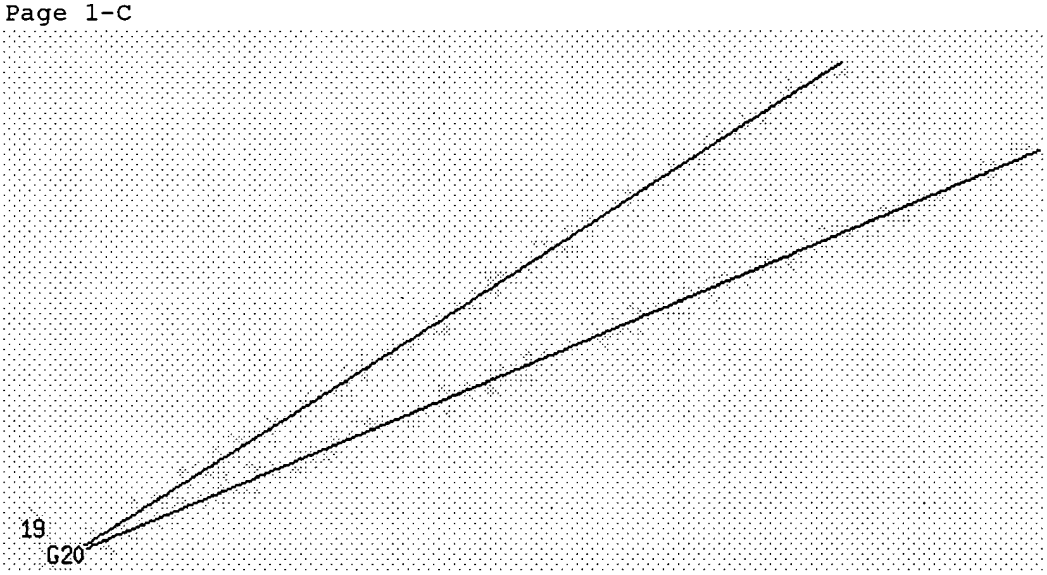

```
Page 1-A
```



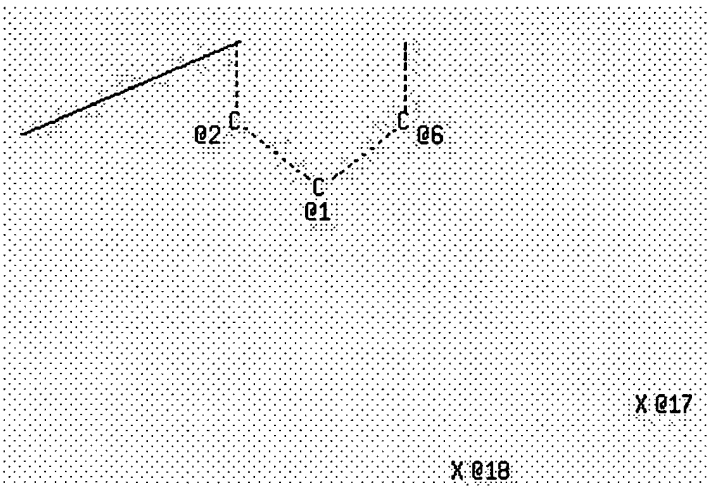
Page 1-B

1

Page 1-C



Page 2-A




```
Page 2-B
REP G20=(0-2) 12-11 12-14
VPA 17-5/6 S
VPA 18-1/2 S
NODE ATTRIBUTES:
HCOUNT  IS M2     AT   9
HCOUNT  IS M2     AT  10
HCOUNT  IS M2     AT  11
HCOUNT  IS M2     AT  12
HCOUNT  IS M1     AT  16
NSPEC   IS R      AT   1
NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS C      AT   7
NSPEC   IS C      AT   8
NSPEC   IS C      AT   9
NSPEC   IS C      AT  10
NSPEC   IS C      AT  11
NSPEC   IS C      AT  12
NSPEC   IS C      AT  13
NSPEC   IS C      AT  14
NSPEC   IS C      AT  15
NSPEC   IS C      AT  16
NSPEC   IS C      AT  17
NSPEC   IS C      AT  18
NSPEC   IS C      AT  19
NSPEC   IS C      AT  20
NSPEC   IS C      AT  21
NSPEC   IS C      AT  22
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT   7  8  9 10 11 12 13 14 15 16 17 18 20 21 22
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  22

STEREO ATTRIBUTES: NONE


=> s 113
```

```
SAMPLE SEARCH INITIATED 16:55:54 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     21 TO ITERATE

100.0% PROCESSED      21 ITERATIONS                                  0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          146 TO      694
PROJECTED ANSWERS:               0 TO        0

L14           0 SEA SSS SAM L13

=> s l13 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 16:56:01 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    503 TO ITERATE

100.0% PROCESSED     503 ITERATIONS                                  2 ANSWERS
SEARCH TIME: 00.00.01

L15           2 SEA SSS FUL L13

=> file hcaplus
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                484.42     658.62

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                 0.00      -0.73

FILE 'HCAPLUS' ENTERED AT 16:56:05 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 13 May 2005  VOL 142 ISS 21
FILE LAST UPDATED: 12 May 2005  (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l15
L16           1 L15
```

```
=> d l16, ibib abs hitstr, 1

L16  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
```

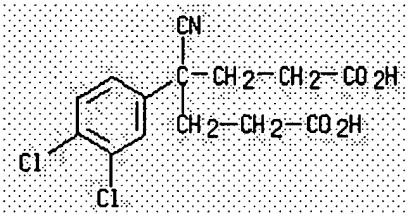
Full Text | Citing References

```
ACCESSION NUMBER:          1997:618075  HCAPLUS
DOCUMENT NUMBER:           127:278145
TITLE:                     Preparation of 3-aryl-3-carboxyalkyl glutarimides
INVENTOR(S):               Camus, Philippe; Descamps, Marcel; Radisson, Joel
PATENT ASSIGNEE(S):        Sanofi, Fr.; Camus, Philippe; Descamps, Marcel;
                           Radisson, Joel
SOURCE:                    PCT Int. Appl., 41 pp.
                           CODEN: PIXXD2
DOCUMENT TYPE:             Patent
LANGUAGE:                  French
FAMILY ACC. NUM. COUNT:    1
PATENT INFORMATION:
```

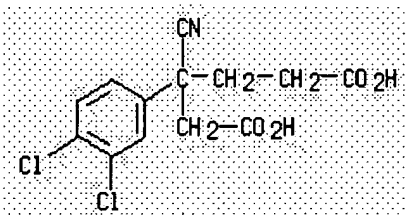
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
WO 9732852	A1	19970912	WO 1997-FR388		19970305
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM					
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG					
FR 2745811	A1	19970912	FR 1996-2880		19960307
FR 2745811	B1	19980522			
CA 2244771	AA	19970912	CA 1997-2244771		19970305
CA 2244771	C	20040713			
AU 9721634	A1	19970922	AU 1997-21634		19970305
EP 888304	A1	19990107	EP 1997-914357		19970305
EP 888304	B1	20011004			
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI					
JP 11506124	T2	19990602	JP 1997-531525		19970305
JP 3116051	B2	20001211			
BR 9707943	A	19990727	BR 1997-7943		19970305
AT 206399	E	20011015	AT 1997-914357		19970305
PT 888304	T	20020228	PT 1997-914357		19970305
ES 2165594	T3	20020316	ES 1997-914357		19970305
TW 381080	B	20000201	TW 1997-86102748		19970306
ZA 9701999	A	19970909	ZA 1997-1999		19970307
US 6008360	A	19991228	US 1998-142306		19980903
NO 9804083	A	19980904	NO 1998-4083		19980904
NO 314498	B1	20030331			
US 6242607	B1	20010605	US 1999-437362		19991110
PRIORITY APPLN. INFO.:			FR 1996-2880	A	19960307
			WO 1997-FR388	W	19970305
			US 1998-142306	A3	19980903

```
OTHER SOURCE(S):           MARPAT 127:278145
AB   RCR1R2ZCO2H [I; R = (un)substituted Ph, pyridyl, thienyl; R1R2 =
     CH2CH2CONHCO; Z = CH2 or CH2CH2] were prepd. by cyclization of I (R1 =
     cyano, R2 = CH2CH2CN or CH2CH2CO2H).
IT 196800-81-4P, 4-Cyano-4-(3,4-dichlorophenyl)heptanedioic acid
   196800-92-7P, 3-Cyano-3-(3,4-dichlorophenyl)hexanedioic acid
   RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic
```

preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of 3-aryl-3-carboxyalkyl glutarimides)
RN 196800-81-4 HCAPLUS
CN Heptanedioic acid, 4-cyano-4-(3,4-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 196800-92-7 HCAPLUS
CN Hexanedioic acid, 3-cyano-3-(3,4-dichlorophenyl)- (9CI) (CA INDEX NAME)



=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	7.39	666.01

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-1.46

FILE 'CAOLD' ENTERED AT 16:56:19 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

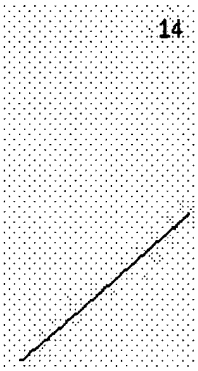
This file supports REGIstRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> d his

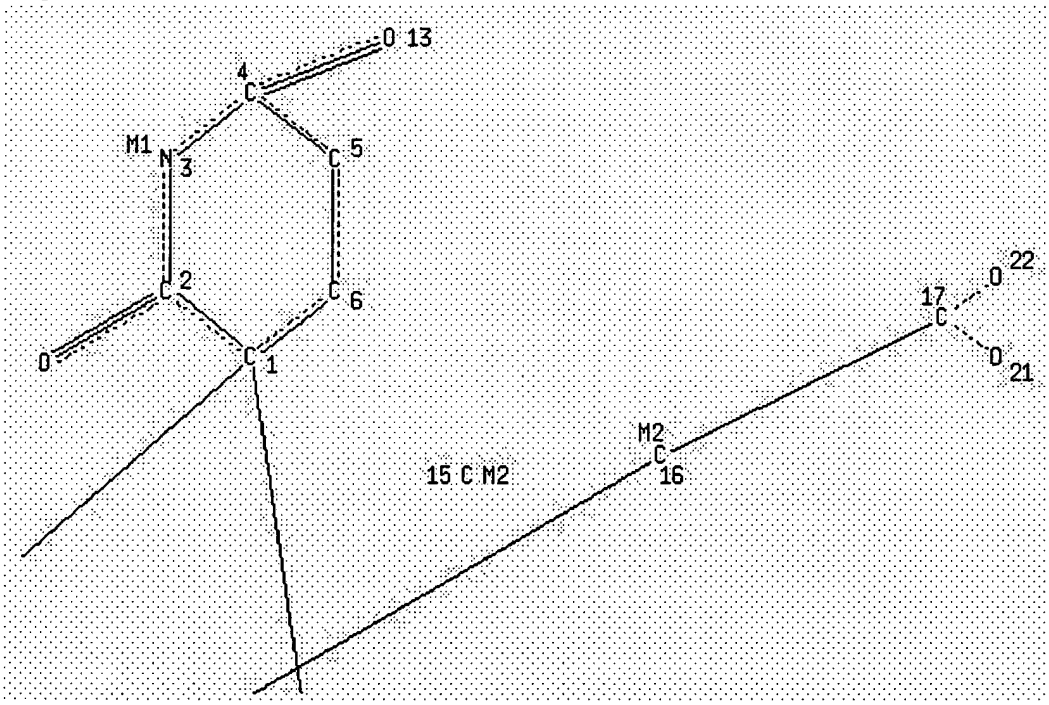
(FILE 'HOME' ENTERED AT 16:48:48 ON 13 MAY 2005)

```
     FILE 'REGISTRY' ENTERED AT 16:48:54 ON 13 MAY 2005
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           1 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 16:52:10 ON 13 MAY 2005
L4           1 S L3
L5             STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 16:53:37 ON 13 MAY 2005
L6             STRUCTURE UPLOADED
L7           0 S L6
L8           1 S L6 FULL
L9             STRUCTURE UPLOADED
L10          0 S L9
L11          1 S L9 FULL
L12          0 S L11 NOT L8
L13            STRUCTURE UPLOADED
L14          0 S L13
L15          2 S L13 FULL

     FILE 'HCAPLUS' ENTERED AT 16:56:05 ON 13 MAY 2005
L16          1 S L15

     FILE 'CAOLD' ENTERED AT 16:56:19 ON 13 MAY 2005

=> s 13
L17          0 L3

=> s l15
L18          0 L15

=> file reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 1.29     667.30

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                 0.00      -1.46

FILE 'REGISTRY' ENTERED AT 16:58:15 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   12 MAY 2005  HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES:  12 MAY 2005  HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
```

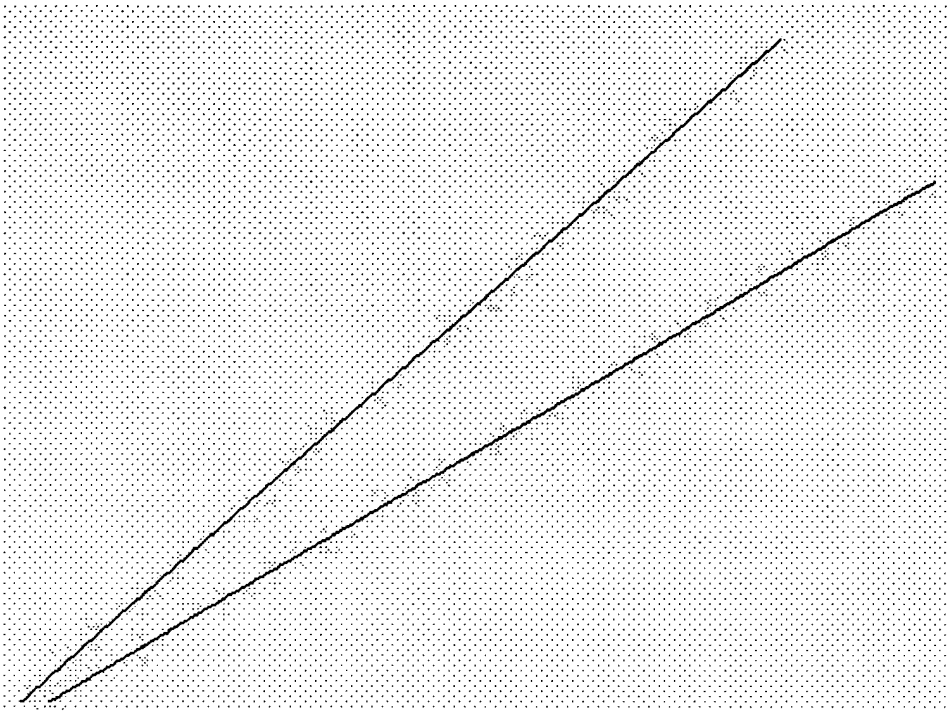
```
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L19     STRUCTURE UPLOADED

=> d l19
L19 HAS NO ANSWERS
L19              STR
```



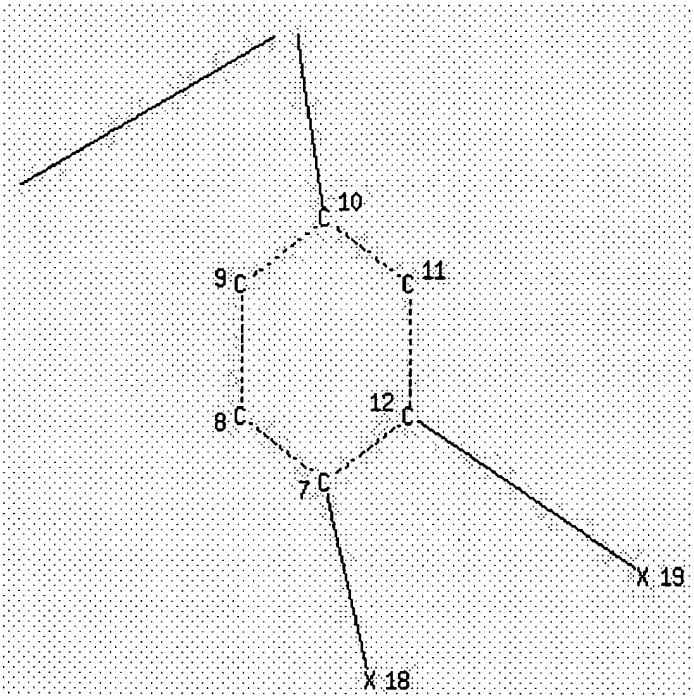
Page 1-A



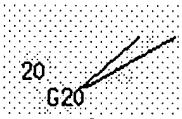
Page 1-B



Page 2-A



Page 2-B



Page 3-A

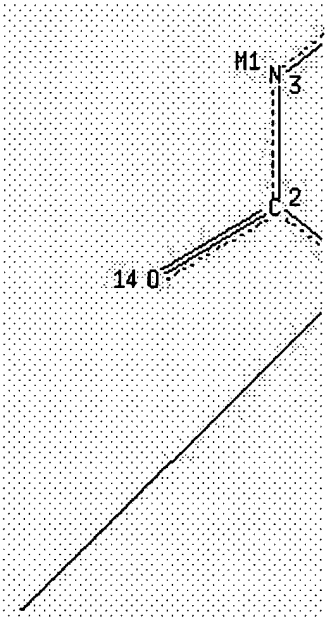
```
REP G20=(0-2) 15-1 15-16
NODE ATTRIBUTES:
HCOUNT   IS M1      AT   3
HCOUNT   IS M2      AT  15
HCOUNT   IS M2      AT  16
NSPEC    IS R       AT   1
NSPEC    IS R       AT   2
```

```
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS R      AT   9
NSPEC   IS R      AT  10
NSPEC   IS R      AT  11
NSPEC   IS R      AT  12
NSPEC   IS C      AT  13
NSPEC   IS C      AT  14
NSPEC   IS C      AT  15
NSPEC   IS C      AT  16
NSPEC   IS C      AT  17
NSPEC   IS C      AT  18
NSPEC   IS C      AT  19
NSPEC   IS C      AT  20
NSPEC   IS C      AT  21
NSPEC   IS C      AT  22
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  13 14 15 16 17 18 19 21 22
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  22

STEREO ATTRIBUTES: NONE


=> s l19
SAMPLE SEARCH INITIATED 17:01:04 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                              0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:             0 TO        0
PROJECTED ANSWERS:                0 TO        0

L20           0 SEA SSS SAM L19

=> s l19 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:01:09 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      9 TO ITERATE

100.0% PROCESSED       9 ITERATIONS                              9 ANSWERS
SEARCH TIME: 00.00.01

L21           9 SEA SSS FUL L19

=> file hcaplus
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                             163.05     830.35
```

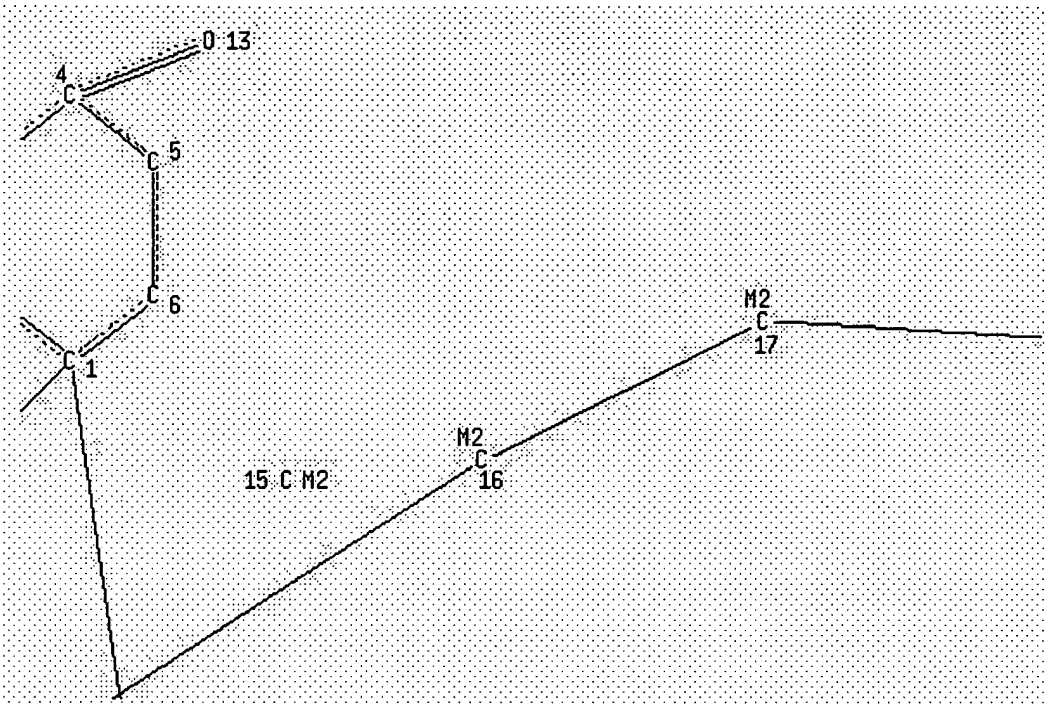
```
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.46

FILE 'HCAPLUS' ENTERED AT 17:01:12 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 13 May 2005  VOL 142 ISS 21
FILE LAST UPDATED: 12 May 2005  (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l21/prep
             3 L21
       3302346 PREP/RL
L22          3 L21/PREP
                 (L21 (L) PREP/RL)

=> file reg
COST IN U.S. DOLLARS                              SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                    2.45     832.80

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)        SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.46

FILE 'REGISTRY' ENTERED AT 17:01:25 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   12 MAY 2005  HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES:  12 MAY 2005  HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
```

conducting SmartSELECT searches.

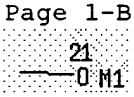
```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information.  *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L23     STRUCTURE UPLOADED

=> d l23
L23 HAS NO ANSWERS
L23                STR
```



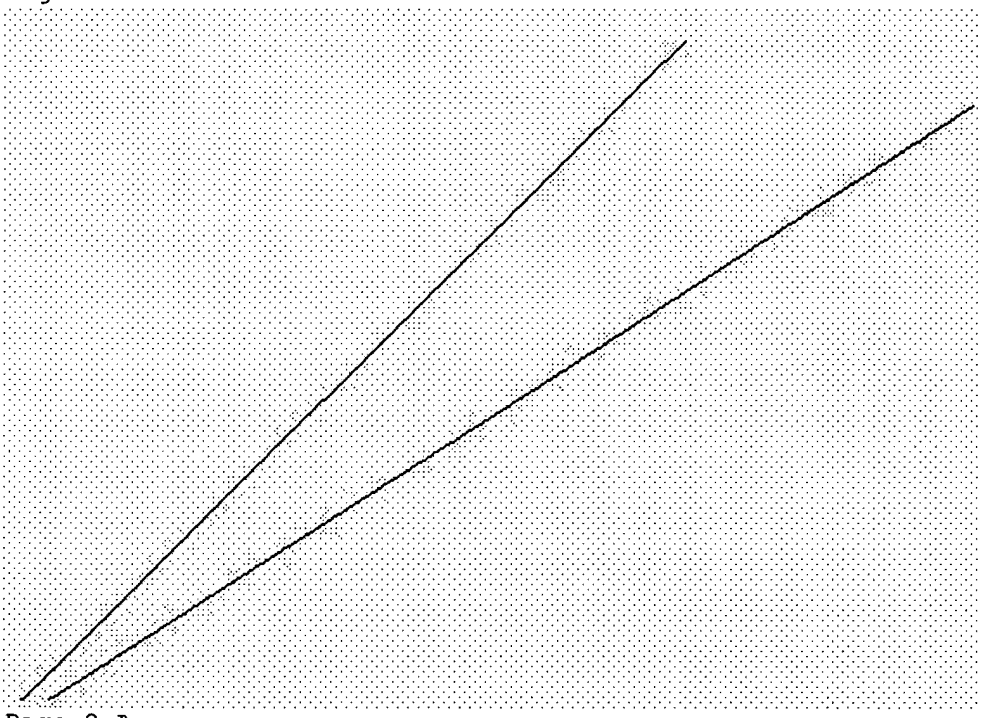
Page 1-A



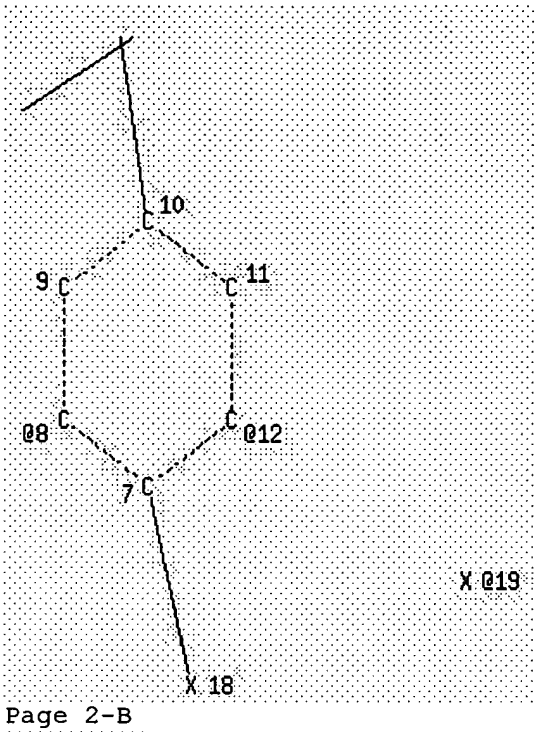
Page 1-B



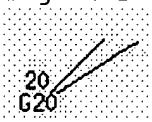
Page 1-C



Page 2-A



Page 2-B



Page 3-A

```
REP G20=(0-2) 15-1 15-16
VPA 19-8/12 S
NODE ATTRIBUTES:
HCOUNT  IS M1     AT   3
HCOUNT  IS M2     AT  15
HCOUNT  IS M2     AT  16
HCOUNT  IS M2     AT  17
HCOUNT  IS M1     AT  21
NSPEC   IS R      AT   1
NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS R      AT   9
NSPEC   IS R      AT  10
NSPEC   IS R      AT  11
NSPEC   IS R      AT  12
NSPEC   IS C      AT  13
NSPEC   IS C      AT  14
NSPEC   IS C      AT  15
NSPEC   IS C      AT  16
NSPEC   IS C      AT  17
NSPEC   IS C      AT  18
NSPEC   IS C      AT  19
NSPEC   IS C      AT  20
NSPEC   IS C      AT  21
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  13 14 15 16 17 18 19 21
```

```
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  21

STEREO ATTRIBUTES: NONE


=> s l23
SAMPLE SEARCH INITIATED 17:02:46 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      1 TO ITERATE

100.0% PROCESSED       1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO       80
PROJECTED ANSWERS:               0 TO        0

L24           0 SEA SSS SAM L23

=> s 123 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:02:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     17 TO ITERATE

100.0% PROCESSED      17 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L25           0 SEA SSS FUL L23

=>
L26     STRUCTURE UPLOADED

=> s 126
SAMPLE SEARCH INITIATED 17:03:52 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -     24 TO ITERATE

100.0% PROCESSED      24 ITERATIONS                                2 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:          187 TO      773
PROJECTED ANSWERS:               2 TO      124

L27           2 SEA SSS SAM L26

=> s 127 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:04:07 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -    393 TO ITERATE

100.0% PROCESSED     393 ITERATIONS                               16 ANSWERS
SEARCH TIME: 00.00.01
```

```
L28           16 SEA SSS FUL L26

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   323.95    1156.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.46

FILE 'HCAPLUS' ENTERED AT 17:04:10 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 13 May 2005  VOL 142 ISS 21
FILE LAST UPDATED: 12 May 2005  (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l28
L29           25 L28

=> s l28/prep
              25 L28
         3302346 PREP/RL
L30           21 L28/PREP
                    (L28 (L) PREP/RL)

=> file reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     2.45    1159.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -1.46

FILE 'REGISTRY' ENTERED AT 17:04:18 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.
```

STRUCTURE FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

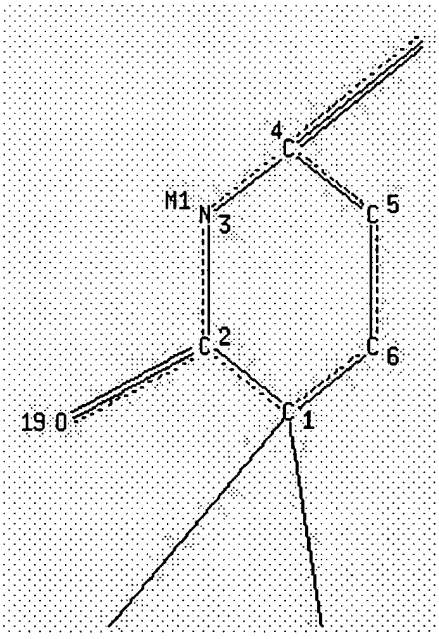
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

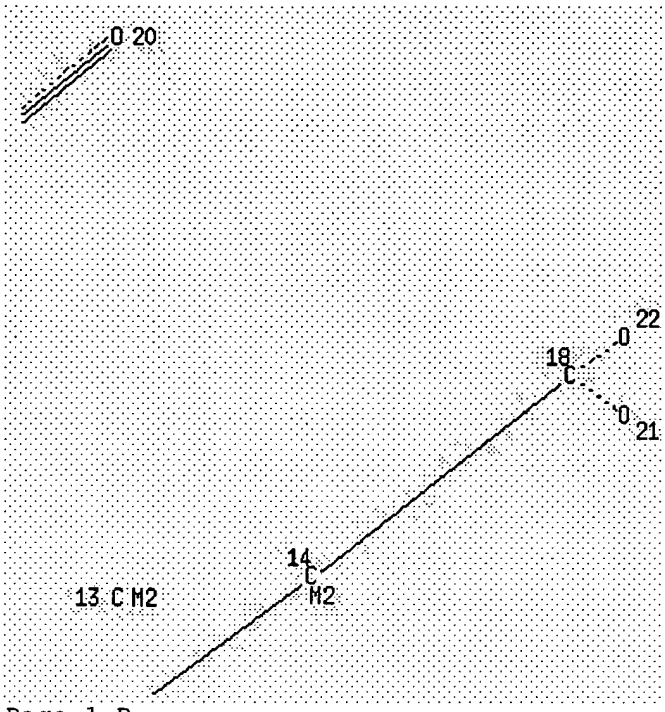
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L31 STRUCTURE UPLOADED

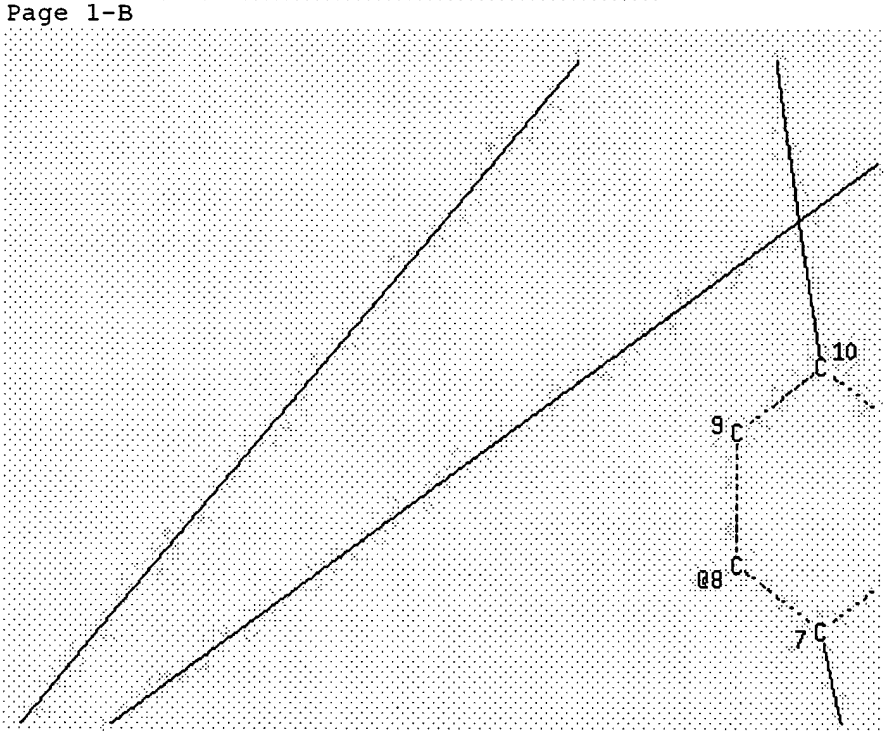
=> d l31
L31 HAS NO ANSWERS
L31 STR



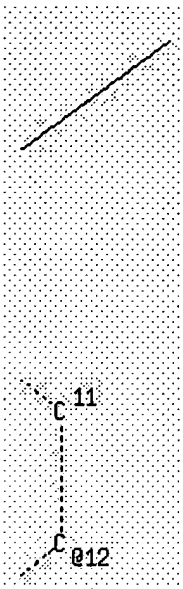
Page 1-A



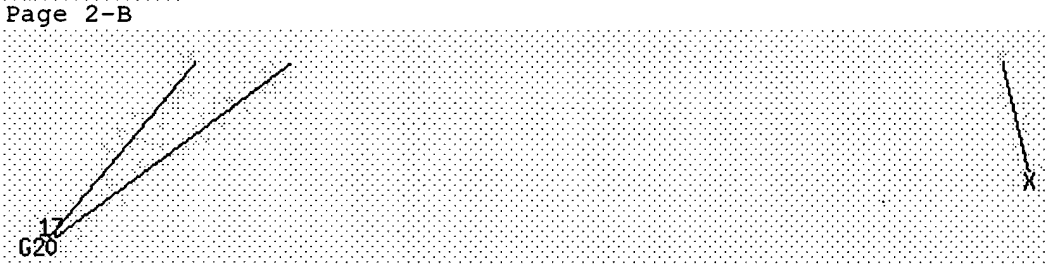
Page 1-B



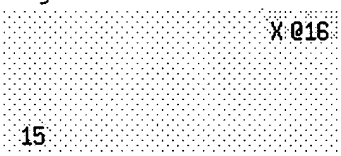
Page 2-A



Page 2-B



Page 3-A



Page 3-B

```
REP G20=(0-2) 13-1 13-14
VPA 16-8/12 S
NODE ATTRIBUTES:
HCOUNT  IS M1     AT   3
HCOUNT  IS M2     AT  13
HCOUNT  IS M2     AT  14
NSPEC   IS R      AT   1
NSPEC   IS R      AT   2
NSPEC   IS R      AT   3
NSPEC   IS R      AT   4
NSPEC   IS R      AT   5
NSPEC   IS R      AT   6
NSPEC   IS R      AT   7
NSPEC   IS R      AT   8
NSPEC   IS R      AT   9
NSPEC   IS R      AT  10
NSPEC   IS R      AT  11
NSPEC   IS R      AT  12
NSPEC   IS C      AT  13
NSPEC   IS C      AT  14
NSPEC   IS C      AT  15
NSPEC   IS C      AT  16
NSPEC   IS C      AT  17
NSPEC   IS C      AT  18
NSPEC   IS C      AT  19
```

```
NSPEC   IS C      AT  20
NSPEC   IS C      AT  21
NSPEC   IS C      AT  22
DEFAULT MLEVEL IS ATOM
MLEVEL  IS CLASS  AT  13 14 15 16 18 19 20 21 22
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RSPEC I
NUMBER OF NODES IS  22

STEREO ATTRIBUTES: NONE


=> s 131
SAMPLE SEARCH INITIATED 17:06:48 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      0 TO ITERATE

100.0% PROCESSED       0 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            0 TO        0
PROJECTED ANSWERS:               0 TO        0

L32           0 SEA SSS SAM L31

=> s 131 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:06:52 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     13 TO ITERATE

100.0% PROCESSED      13 ITERATIONS                                9 ANSWERS
SEARCH TIME: 00.00.01

L33           9 SEA SSS FUL L31

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     162.62    1321.82

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                         ENTRY    SESSION
CA SUBSCRIBER PRICE                                       0.00      -1.46

FILE 'HCAPLUS' ENTERED AT 17:06:56 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)


Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
```

databases on STN. Any dissemination, distribution, copying, or storing of this information, without the prior written consent of CAS, is strictly prohibited.

FILE COVERS 1907 - 13 May 2005 VOL 142 ISS 21
FILE LAST UPDATED: 12 May 2005 (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> s l33/rct
             3 L33
       2730968 RCT/RL
L34          2 L33/RCT
                 (L33 (L) RCT/RL)

=> d his

     (FILE 'HOME' ENTERED AT 16:48:48 ON 13 MAY 2005)

     FILE 'REGISTRY' ENTERED AT 16:48:54 ON 13 MAY 2005
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           1 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 16:52:10 ON 13 MAY 2005
L4           1 S L3
L5             STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 16:53:37 ON 13 MAY 2005
L6             STRUCTURE UPLOADED
L7           0 S L6
L8           1 S L6 FULL
L9             STRUCTURE UPLOADED
L10          0 S L9
L11          1 S L9 FULL
L12          0 S L11 NOT L8
L13            STRUCTURE UPLOADED
L14          0 S L13
L15          2 S L13 FULL

     FILE 'HCAPLUS' ENTERED AT 16:56:05 ON 13 MAY 2005
L16          1 S L15

     FILE 'CAOLD' ENTERED AT 16:56:19 ON 13 MAY 2005
L17          0 S L3
L18          0 S L15

     FILE 'REGISTRY' ENTERED AT 16:58:15 ON 13 MAY 2005
L19            STRUCTURE UPLOADED
L20          0 S L19
L21          9 S L19 FULL

     FILE 'HCAPLUS' ENTERED AT 17:01:12 ON 13 MAY 2005
L22          3 S L21/PREP

     FILE 'REGISTRY' ENTERED AT 17:01:25 ON 13 MAY 2005
L23            STRUCTURE UPLOADED
```

```
L24             0 S L23
L25             0 S L23 FULL
L26               STRUCTURE UPLOADED
L27             2 S L26
L28            16 S L27 FULL

     FILE 'HCAPLUS' ENTERED AT 17:04:10 ON 13 MAY 2005
L29            25 S L28
L30            21 S L28/PREP

     FILE 'REGISTRY' ENTERED AT 17:04:18 ON 13 MAY 2005
L31               STRUCTURE UPLOADED
L32             0 S L31
L33             9 S L31 FULL

     FILE 'HCAPLUS' ENTERED AT 17:06:56 ON 13 MAY 2005
L34             2 S L33/RCT

=> s l34 and l30
L35             1 L34 AND L30

=> d l35, ibib abs hitstr, 1

L35  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2005 ACS on STN
```

Full Text | Check References

```
ACCESSION NUMBER:         1997:618075  HCAPLUS
DOCUMENT NUMBER:          127:278145
TITLE:                    Preparation of 3-aryl-3-carboxyalkyl glutarimides
INVENTOR(S):              Camus, Philippe; Descamps, Marcel; Radisson, Joel
PATENT ASSIGNEE(S):       Sanofi, Fr.; Camus, Philippe; Descamps, Marcel;
                          Radisson, Joel
SOURCE:                   PCT Int. Appl., 41 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 French
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:
```

no

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9732852	A1	19970912	WO 1997-FR388	19970305
W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
FR 2745811	A1	19970912	FR 1996-2880	19960307
FR 2745811	B1	19980522		
CA 2244771	AA	19970912	CA 1997-2244771	19970305
CA 2244771	C	20040713		
AU 9721634	A1	19970922	AU 1997-21634	19970305
EP 888304	A1	19990107	EP 1997-914357	19970305
EP 888304	B1	20011004		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
JP 11506124	T2	19990602	JP 1997-531525	19970305

JP 3116051	B2	20001211			
BR 9707943	A	19990727	BR 1997-7943		19970305
AT 206399	E	20011015	AT 1997-914357		19970305
PT 888304	T	20020228	PT 1997-914357		19970305
ES 2165594	T3	20020316	ES 1997-914357		19970305
TW 381080	B	20000201	TW 1997-86102748		19970306
ZA 9701999	A	19970909	ZA 1997-1999		19970307
US 6008360	A	19991228	US 1998-142306		19980903
NO 9804083	A	19980904	NO 1998-4083		19980904
NO 314498	B1	20030331			
US 6242607	B1	20010605	US 1999-437362		19991110
PRIORITY APPLN. INFO.:			FR 1996-2880	A	19960307
			WO 1997-FR388	W	19970305
			US 1998-142306	A3	19980903

OTHER SOURCE(S): MARPAT 127:278145

AB RCR1R2ZCO2H [I; R = (un)substituted Ph, pyridyl, thienyl; R1R2 = CH2CH2CONHCO; Z = CH2 or CH2CH2] were prepd. by cyclization of I (R1 = cyano, R2 = CH2CH2CN or CH2CH2CO2H).

IT **196800-83-6P**

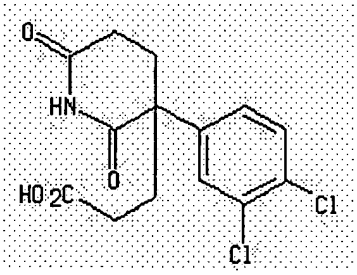
RL: IMF (Industrial manufacture); PUR (Purification or recovery); **RCT (Reactant)**; SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of 3-aryl-3-carboxyalkyl glutarimides)

RN 196800-83-6 HCAPLUS

CN 3-Piperidinepropanoic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).



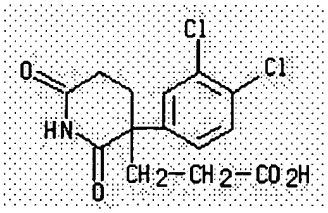
IT **196800-82-5P 196800-84-7P 196800-86-9P**

RL: IMF (Industrial manufacture); **RCT (Reactant)**; SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of 3-aryl-3-carboxyalkyl glutarimides)

RN 196800-82-5 HCAPLUS

CN 3-Piperidinepropanoic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo- (9CI) (CA INDEX NAME)



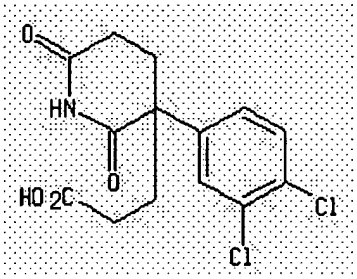
RN 196800-84-7 HCAPLUS

CN Cinchonan-9-ol, 6'-methoxy-, (8α,9R)-, mono[(+)-3-(3,4-dichlorophenyl)-2,6-dioxo-3-piperidinepropanoate] (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 196800-83-6
CMF C14 H13 Cl2 N O4

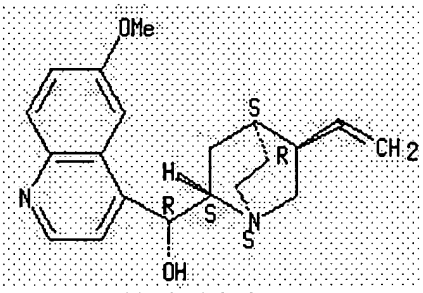
Rotation (+).



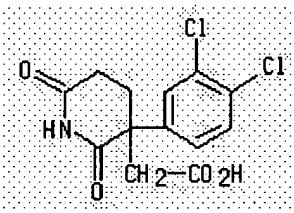
CM 2

CRN 130-95-0
CMF C20 H24 N2 O2

Absolute stereochemistry.

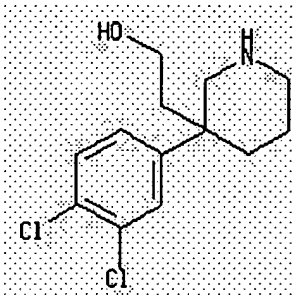


RN 196800-86-9 HCAPLUS
CN 3-Piperidineacetic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo- (9CI) (CA INDEX NAME)

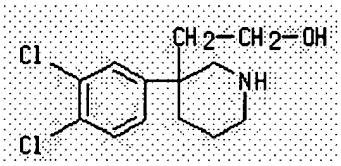


IT **146396-10-3P 178371-54-5P 188937-87-3P**
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); **PREP (Preparation)**
(prepn. of 3-aryl-3-carboxyalkyl glutarimides)
RN 146396-10-3 HCAPLUS
CN 3-Piperidineethanol, 3-(3,4-dichlorophenyl)-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

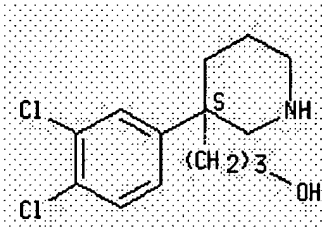


RN 178371-54-5 HCAPLUS
CN 3-Piperidineethanol, 3-(3,4-dichlorophenyl)- (9CI) (CA INDEX NAME)



RN 188937-87-3 HCAPLUS
CN 3-Piperidinepropanol, 3-(3,4-dichlorophenyl)-, (3S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



=> file caold

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	12.29	1334.11

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-2.19

FILE 'CAOLD' ENTERED AT 17:08:38 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

New CAS Information Use Policies, enter HELP USAGETERMS for details.

```
  This file supports REGISTRY for direct browsing and searching of
  all substance data from the REGISTRY file.  Enter HELP FIRST for
  more information.

=> d his

     (FILE 'HOME' ENTERED AT 16:48:48 ON 13 MAY 2005)

     FILE 'REGISTRY' ENTERED AT 16:48:54 ON 13 MAY 2005
L1             STRUCTURE UPLOADED
L2           0 S L1
L3           1 S L1 FULL

     FILE 'HCAPLUS' ENTERED AT 16:52:10 ON 13 MAY 2005
L4           1 S L3
L5             STRUCTURE UPLOADED

     FILE 'REGISTRY' ENTERED AT 16:53:37 ON 13 MAY 2005
L6             STRUCTURE UPLOADED
L7           0 S L6
L8           1 S L6 FULL
L9             STRUCTURE UPLOADED
L10          0 S L9
L11          1 S L9 FULL
L12          0 S L11 NOT L8
L13            STRUCTURE UPLOADED
L14          0 S L13
L15          2 S L13 FULL

     FILE 'HCAPLUS' ENTERED AT 16:56:05 ON 13 MAY 2005
L16          1 S L15

     FILE 'CAOLD' ENTERED AT 16:56:19 ON 13 MAY 2005
L17          0 S L3
L18          0 S L15

     FILE 'REGISTRY' ENTERED AT 16:58:15 ON 13 MAY 2005
L19            STRUCTURE UPLOADED
L20          0 S L19
L21          9 S L19 FULL

     FILE 'HCAPLUS' ENTERED AT 17:01:12 ON 13 MAY 2005
L22          3 S L21/PREP

     FILE 'REGISTRY' ENTERED AT 17:01:25 ON 13 MAY 2005
L23            STRUCTURE UPLOADED
L24          0 S L23
L25          0 S L23 FULL
L26            STRUCTURE UPLOADED
L27          2 S L26
L28         16 S L27 FULL

     FILE 'HCAPLUS' ENTERED AT 17:04:10 ON 13 MAY 2005
L29         25 S L28
L30         21 S L28/PREP

     FILE 'REGISTRY' ENTERED AT 17:04:18 ON 13 MAY 2005
L31            STRUCTURE UPLOADED
L32          0 S L31
L33          9 S L31 FULL
```

```
     FILE 'HCAPLUS' ENTERED AT 17:06:56 ON 13 MAY 2005
L34            2 S L33/RCT
L35            1 S L34 AND L30

     FILE 'CAOLD' ENTERED AT 17:08:38 ON 13 MAY 2005

=> s 134 and 1130
QUALIFICATION NOT VALID FOR L33
Field code qualifications can only be applied to text
terms.

=> s 134 and 130
QUALIFICATION NOT VALID FOR L33
Field code qualifications can only be applied to text
terms.

=> s 134 and 130
QUALIFICATION NOT VALID FOR L33
Field code qualifications can only be applied to text
terms.

=> file reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.43    1334.54

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)      SINCE FILE      TOTAL
                                                   ENTRY    SESSION
CA SUBSCRIBER PRICE                                 0.00      -2.19

FILE 'REGISTRY' ENTERED AT 17:09:05 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 American Chemical Society (ACS)

Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   12 MAY 2005  HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES:  12 MAY 2005  HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.
```

```
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=>
L36     STRUCTURE UPLOADED

=> s l36
SAMPLE SEARCH INITIATED 17:12:17 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      1 TO ITERATE

100.0% PROCESSED       1 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:            1 TO       80
PROJECTED ANSWERS:               0 TO        0

L37           0 SEA SSS SAM L36

=> s l36 full
THE ESTIMATED SEARCH COST FOR FILE 'REGISTRY' IS 160.90 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N or END:y
FULL SEARCH INITIATED 17:12:24 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -     17 TO ITERATE

100.0% PROCESSED      17 ITERATIONS                                0 ANSWERS
SEARCH TIME: 00.00.01

L38           0 SEA SSS FUL L36

=> log y
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                   163.48    1498.02

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)          SINCE FILE      TOTAL
                                                       ENTRY    SESSION
CA SUBSCRIBER PRICE                                     0.00      -2.19

STN INTERNATIONAL LOGOFF AT 17:12:32 ON 13 MAY 2005
```

```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
                   (ROSPATENT) added to list of core patent offices covered
 NEWS  4  FEB 28   PATDPAFULL - New display fields provide for legal status
                   data from INPADOC
 NEWS  5  FEB 28   BABS - Current-awareness alerts (SDIs) available
 NEWS  6  FEB 28   MEDLINE/LMEDLINE reloaded
 NEWS  7  MAR 02   GBFULL: New full-text patent database on STN
 NEWS  8  MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  9  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  10 MAR 22   KOREAPAT now updated monthly; patent information enhanced
 NEWS  11 MAR 22   Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  12 MAR 22   PATDPASPC - New patent database available
 NEWS  13 MAR 22   REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  14 APR 04   EPFULL enhanced with additional patent information and new
                   fields
 NEWS  15 APR 04   EMBASE - Database reloaded and enhanced
 NEWS  16 APR 18   New CAS Information Use Policies available online
 NEWS  17 APR 25   Patent searching, including current-awareness alerts (SDIs),
                   based on application date in CA/CAplus and USPATFULL/USPAT2
                   may be affected by a change in filing date for U.S.
                   applications.
 NEWS  18 APR 28   Improved searching of U.S. Patent Classifications for
                   U.S. patent records in CA/CAplus

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
specific topic.

  All use of STN is subject to the provisions of the STN Customer
  agreement.  Please note that this agreement limits use to scientific
  research.  Use for software development or design or implementation
  of commercial gateways or other similar uses is prohibited and may
  result in loss of user privileges and other penalties.

  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 16:30:23 ON 13 MAY 2005

=> file hcaplus
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

FILE 'HCAPLUS' ENTERED AT 16:30:33 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)
```

FILE COVERS 1907 - 13 May 2005 VOL 142 ISS 21
FILE LAST UPDATED: 12 May 2005 (20050512/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

```
=> s 127:278145/dn
L1            1 127:278145/DN

=> sel rn
E1 THROUGH E22 ASSIGNED

=> s e1-e22
          27768 107-13-1/BI
              5 146396-10-3/BI
              4 176044-72-7/BI
             13 178371-54-5/BI
              2 188937-87-3/BI
              2 196800-80-3/BI
              1 196800-81-4/BI
              2 196800-82-5/BI
              2 196800-83-6/BI
              1 196800-84-7/BI
              1 196800-85-8/BI
              1 196800-86-9/BI
              1 196800-87-0/BI
              1 196800-88-1/BI
              1 196800-89-2/BI
              1 196800-90-5/BI
              1 196800-91-6/BI
              1 196800-92-7/BI
              1 196800-93-8/BI
            183 3218-49-3/BI
              9 65619-22-9/BI
          12799 96-33-3/BI
L2        37621 (107-13-1/BI OR 146396-10-3/BI OR 176044-72-7/BI OR 178371-54-5/
                BI OR 188937-87-3/BI OR 196800-80-3/BI OR 196800-81-4/BI OR
                196800-82-5/BI OR 196800-83-6/BI OR 196800-84-7/BI OR 196800-85-
                8/BI OR 196800-86-9/BI OR 196800-87-0/BI OR 196800-88-1/BI OR
                196800-89-2/BI OR 196800-90-5/BI OR 196800-91-6/BI OR 196800-92-
                7/BI OR 196800-93-8/BI OR 3218-49-3/BI OR 65619-22-9/BI OR 96-33
                -3/BI)

=> d scan

L2    37621 ANSWERS   HCAPLUS  COPYRIGHT 2005 ACS on STN
```

IC ICM B32B027-08
INCL 428518000; 428520000; 428483000
CC 38-3 (Plastics Fabrication and Uses)
TI Multilayer composites with improved weatherability and adhesion to fiber-reinforced plastic substrates
ST acrylate modified acrylonitrile styrene acrylate rubber multilayer composite; modified ABS polymer polyacrylate multilayer composite; multilayer composite lamination fiber reinforced plastic
IT Reinforced plastics
RL: TEM (Technical or engineered material use); USES (Uses)
(fiber-reinforced, substrates; multilayer composites with improved weatherability and adhesion to fiber-reinforced plastic substrates)
IT 9003-56-9, Cycolac GPP 4600
RL: TEM (Technical or engineered material use); USES (Uses)
(acrylate-modified, Cycolac GPX 3800; multilayer composites with improved weatherability and adhesion to fiber-reinforced plastic substrates)
IT 9011-14-7, Plexiglas V 826 219531-57-4, Plexiglas DR 101
RL: TEM (Technical or engineered material use); USES (Uses)
(modifier; multilayer composites with improved weatherability and adhesion to fiber-reinforced plastic substrates)
IT 79-10-7D, Acrylic acid, esters, terpolymers with acrylonitrile and styrene
100-42-5D, Styrene, terpolymer with acrylonitrile and acrylate
107-13-1D, Acrylonitrile, terpolymer with styrene and acrylate
RL: TEM (Technical or engineered material use); USES (Uses)
(rubber, acrylate-modified; multilayer composites with improved weatherability and adhesion to fiber-reinforced plastic substrates)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)21

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM A61K
CC 7-2 (Enzymes)
Section cross-reference(s): 3, 9, 17, 22, 63
TI Hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes
ST hydrolase gene sequence environmental organism; lipase gene sequence environmental organism; synthesis structured lipid oil lipase
IT Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(35S, plant expression vector contg.; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Fats and Glyceridic oils, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(animal; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Esters, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(arom., stereoselective hydrolysis of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Information systems
(computerized, sequence storage and retrieval in; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Textiles
(cotton, treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Lipid A
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(deacylation of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Isomerization
(enantiomerization; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Toxins
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(endotoxins, detoxification of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Alcoholysis
Esterification
Hydrolysis
(enzymic; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Fatty acids, biological studies
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(esters; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Linum usitatissimum
(fabric, treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Boehmeria nivea
(fabrics, treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Acrylic fibers, biological studies
Polyamide fibers, biological studies
Polyester fibers, biological studies
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(fabrics, treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Fats and Glyceridic oils, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(fish; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Hair preparations
(fixatives; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)
IT Nucleic acid amplification (method)
Nucleic acid hybridization
Sequence homology analysis

(for identifying new hydrolases; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Primers (nucleic acid)
Probes (nucleic acid)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(for identifying new hydrolases; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Asymmetric synthesis and induction
Cocoa butter substitutes
DNA microarray technology
DNA sequences
Detergents
Feed additives
Food additives
Food processing
Genetic vectors
Immunoassay
Latex
Molecular cloning
Mutagenesis
Nucleic acid library
Protein microarray technology
Protein sequences
Stereochemistry
Thermal stability
Transesterification
Transformation, genetic
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Cocoa butter
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Diglycerides
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Fats and Glyceridic oils, biological studies
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Glycerides, biological studies
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);

BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Monoglycerides
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Canola oil
Olive oil
Palm oil
Soybean oil
Sunflower oil
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Acrylic polymers, biological studies
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Immunoassay
(immunoadsorption chromatog.; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Animal cell
(insect, transgenic; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Post-transcriptional processing
(interference, translation inhibition by; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Detergents
(laundry; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Animal cell
(mammalian, transgenic; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); BPN (Biosynthetic preparation); ANST (Analytical study); BIOL (Biological study); PREP (Preparation); USES (Uses)
(monoclonal; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Embryophyta
(oilseed plant, transgenic; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Fusion proteins (chimeric proteins)
Promoter (genetic element)
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(plant expression vector contg.; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Vinyl compounds, biological studies
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(polymers; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Fatty acids, preparation
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(polyunsatd., long-chain; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Toxicity
(preventing lipolypolysaccharide-mediated; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Lipopolysaccharides
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(preventing toxicity mediated by; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Feed
(processing; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Rayon, biological studies
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(reconstituted, treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Hydraulic fluids
Lubricants
(refining of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Fats and Glyceridic oils, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(rice bran; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Genetic element
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(signal sequence, plant expression vector contg.; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Esters, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(stereoselective hydrolysis of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Lipids, preparation
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)

(structured, synthesis of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Diet
(supplements; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Drugs
(synthesis; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Animal
Arachis hypogaea
Arecaceae
Brassica napus
Embryophyta
Eubacteria
Fungi
Glycine max
Helianthus annuus
Hordeum vulgare
Lycopersicon esculentum
Mus musculus
Nicotiana tabacum
Oryza sativa
Plant cell
Poaceae
Protozoa
Seed
Sesamum indicum
Solanum tuberosum
Sorghum bicolor
Triticum aestivum
Yeast
Zea mays
(transgenic; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Antisense oligonucleotides
Double stranded RNA
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
(translation inhibition by; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Textiles
Viscose
Wool
Yarns
(treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Rayon, biological studies
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT Fats and Glyceridic oils, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)

(vegetable; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 849388-98-3P 849389-00-0P 849389-02-2P 849389-04-4P 849389-06-6P
849389-08-8P 849389-10-2P 849389-12-4P 849389-14-6P 849389-16-8P
849389-18-0P 849389-20-4P 849389-22-6P 849389-24-8P 849389-26-0P
849389-28-2P 849389-30-6P 849389-32-8P 849389-34-0P 849389-36-2P
849389-38-4P 849389-40-8P 849389-42-0P 849389-44-2P 849389-46-4P
849389-48-6P 849389-50-0P 849389-52-2P 849389-54-4P 849389-56-6P
849389-58-8P 849389-60-2P 849389-62-4P 849389-64-6P 849389-66-8P
849389-68-0P 849389-70-4P 849389-72-6P 849389-74-8P 849389-76-0P
849389-78-2P 849389-80-6P 849389-82-8P 849389-84-0P 849389-86-2P
849389-88-4P 849389-90-8P 849389-92-0P 849389-94-2P 849389-96-4P
849389-98-6P 849390-00-7P 849390-02-9P 849390-04-1P 849390-06-3P
849390-08-5P 849390-10-9P 849390-12-1P 849390-14-3P 849390-16-5P
849390-18-7P 849390-20-1P 849390-22-3P 849390-24-5P 849390-26-7P
849390-28-9P 849390-30-3P 849390-32-5P 849390-34-7P 849390-36-9P
849390-38-1P 849390-40-5P 849390-42-7P 849390-44-9P 849390-46-1P
849390-48-3P 849390-50-7P 849390-52-9P 849390-54-1P 849390-56-3P
849390-58-5P 849390-60-9P 849390-62-1P 849390-64-3P 849390-66-5P
849390-68-7P 849390-70-1P 849390-72-3P 849390-74-5P 849390-76-7P
849390-78-9P 849390-80-3P 849390-82-5P 849390-84-7P 849390-86-9P
849390-88-1P 849390-90-5P 849390-92-7P 849390-94-9P 849390-96-1P
849390-98-3P 849391-00-0P 849391-02-2P 849391-04-4P 849391-05-5P
849391-07-7P 849391-09-9P 849391-11-3P 849391-13-5P 849391-15-7P
849391-17-9P 849391-19-1P 849391-21-5P 849391-23-7P 849391-25-9P
849391-27-1P 849391-29-3P 849391-31-7P 849391-33-9P 849391-35-1P
849391-37-3P 849391-39-5P 849391-41-9P 849391-43-1P 849391-45-3P
849391-47-5P 849391-49-7P 849391-51-1P 849391-53-3P 849391-55-5P
849391-57-7P 849391-59-9P 849391-61-3P 849391-63-5P 849391-65-7P
849391-67-9P 849391-69-1P 849391-71-5P 849391-73-7P 849391-75-9P
849391-77-1P 849391-79-3P 849391-81-7P 849391-83-9P 849391-85-1P
849391-87-3P 849391-89-5P 849391-91-9P 849391-93-1P 849391-95-3P
849391-97-5P 849391-99-7P 849392-01-4P 849392-03-6P 849392-05-8P
849392-07-0P 849392-09-2P 849392-11-6P 849392-13-8P 849392-15-0P
849392-17-2P 849392-19-4P 849392-21-8P 849392-23-0P 849392-25-2P
849392-27-4P 849392-29-6P 849392-31-0P 849392-33-2P 849392-35-4P
849392-37-6P 849392-39-8P 849392-41-2P 849392-43-4P 849392-45-6P
849392-47-8P 849392-49-0P 849392-51-4P 849392-53-6P 849392-55-8P
849392-57-0P 849392-59-2P 849392-61-6P 849392-63-8P 849392-65-0P
849392-67-2P 849392-69-4P 849392-71-8P 849392-73-0P 849392-75-2P
849392-77-4P 849392-79-6P 849392-81-0P 849392-83-2P 849392-85-4P
849392-87-6P 849392-89-8P 849392-91-2P 849392-93-4P 849392-95-6P
849392-97-8P 849392-99-0P 849393-01-7P 849393-03-9P 849393-05-1P
849393-07-3P 849393-09-5P 849393-11-9P 849393-13-1P 849393-15-3P
849393-17-5P 849393-19-7P 849393-21-1P 849393-23-3P 849393-25-5P
849393-27-7P 849393-29-9P 849393-31-3P 849393-33-5P 849393-35-7P
849393-37-9P 849393-39-1P 849393-41-5P 849393-43-7P 849393-45-9P
849393-47-1P 849393-49-3P 849393-51-7P 849393-53-9P 849393-55-1P
849393-57-3P 849393-59-5P

RL: BPN (Biosynthetic preparation); CAT (Catalyst use); FFD (Food or feed use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(amino acid sequence; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 849393-61-9P 849393-63-1P 849393-65-3P 849393-67-5P 849393-69-7P
849393-71-1P 849393-73-3P 849393-75-5P 849393-77-7P 849393-79-9P
849393-81-3P 849393-83-5P 849393-85-7P 849393-87-9P 849393-89-1P
849393-91-5P 849393-93-7P 849393-95-9P 849393-97-1P 849393-99-3P

849394-01-0P 849394-03-2P 849394-05-4P 849394-07-6P 849394-09-8P
849394-11-2P 849394-13-4P 849394-15-6P 849394-17-8P 849394-19-0P
849394-21-4P 849394-23-6P 849394-25-8P 849394-27-0P 849394-29-2P
849394-31-6P 849394-33-8P 849394-35-0P 849394-37-2P 849394-39-4P
849394-41-8P 849394-43-0P 849394-45-2P 849394-47-4P 849394-49-6P
849394-51-0P 849394-53-2P 849394-55-4P 849394-57-6P 849394-59-8P
849394-61-2P 849394-63-4P 849394-65-6P 849394-67-8P 849394-69-0P
849394-71-4P 849394-73-6P 849394-75-8P 849394-77-0P 849394-79-2P
849394-81-6P 849394-83-8P 849394-85-0P 849394-87-2P 849394-89-4P
849394-91-8P 849394-93-0P 849394-95-2P 849394-97-4P 849394-99-6P
849395-01-3P 849395-03-5P 849395-05-7P 849395-07-9P 849395-09-1P
849395-11-5P 849395-13-7P 849395-15-9P 849395-17-1P 849395-19-3P
849395-21-7P 849395-23-9P 849395-25-1P 849395-27-3P 849395-29-5P
849395-31-9P 849395-33-1P 849395-35-3P 849395-37-5P 849395-39-7P
849395-41-1P 849395-43-3P 849395-45-5P 849395-47-7P 849395-49-9P
849395-51-3P 849395-53-5P 849395-55-7P 849395-57-9P 849395-59-1P
849395-61-5P 849395-63-7P 849395-65-9P 849395-67-1P 849395-69-3P
849395-71-7P 849395-73-9P 849395-75-1P 849395-77-3P 849395-79-5P
849395-81-9P 849395-83-1P 849395-85-3P 849395-87-5P 849395-89-7P
849395-91-1P 849395-93-3P 849395-95-5P 849395-97-7P 849395-99-9P
849396-01-6P 849396-03-8P 849396-05-0P 849396-07-2P 849396-09-4P
849396-11-8P 849396-13-0P 849396-15-2P 849396-17-4P 849396-19-6P
849396-21-0P 849396-23-2P 849396-25-4P 849396-27-6P 849396-29-8P
849396-31-2P 849396-33-4P 849396-35-6P 849396-37-8P 849396-39-0P
849396-41-4P 849396-43-6P 849396-45-8P 849396-47-0P 849396-49-2P
849396-51-6P 849396-53-8P 849396-55-0P 849396-57-2P 849396-59-4P
849396-61-8P 849396-63-0P 849396-65-2P 849396-67-4P 849396-69-6P
849396-71-0P 849396-73-2P 849396-75-4P 849396-77-6P 849396-79-8P
849396-81-2P 849396-83-4P 849396-85-6P 849396-87-8P 849396-89-0P
849396-91-4P 849396-93-6P 849396-95-8P 849396-97-0P 849396-99-2P
849397-01-9P 849397-03-1P 849397-05-3P 849397-07-5P 849397-09-7P
849397-11-1P 849397-13-3P 849397-15-5P 849397-17-7P 849397-19-9P
849397-21-3P 849397-23-5P 849397-25-7P 849397-27-9P 849397-29-1P
849397-31-5P 849397-33-7P 849397-35-9P 849397-37-1P 849397-39-3P
849397-41-7P 849397-43-9P 849397-45-1P 849397-47-3P 849397-49-5P
849397-51-9P 849397-53-1P 849397-55-3P 849397-57-5P 849397-59-7P
849397-61-1P 849397-63-3P 849397-65-5P 849397-67-7P 849397-69-9P
849397-71-3P 849397-73-5P 849397-75-7P 849397-77-9P 849397-79-1P
849397-81-5P 849397-83-7P 849397-85-9P 849397-87-1P 849397-89-3P
849397-91-7P 849397-93-9P 849397-95-1P 849397-97-3P 849397-99-5P
849398-01-2P 849398-03-4P 849398-05-6P 849398-07-8P 849398-09-0P
849398-11-4P 849398-13-6P 849398-15-8P 849398-17-0P 849398-19-2P
849398-21-6P 849398-23-8P
RL: BPN (Biosynthetic preparation); CAT (Catalyst use); FFD (Food or feed use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 849398-25-0P 849398-27-2P 849398-29-4P
RL: BPN (Biosynthetic preparation); CAT (Catalyst use); FFD (Food or feed use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(amino acid sequence; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 506-32-1P, Arachidonic acid 2190-25-2P, 1,3-Dipalmitoyl-2-oleoylglycerol 2190-27-4P, 1-Palmitoyl-2-oleoyl-3-stearoylglycerol 2846-04-0P, 1,3-Distearoyl-2-oleoylglycerol 6217-54-5P, Docosahexaenoic acid 10417-94-4P, Eicosapentaenoic acid 22204-53-1P, S-(+)-2-(6-Methoxy-2-

naphthyl)propionic acid 74160-01-3P, 1,2-Dimyristoyl-3-oleoyl-rac-glycerol 84412-85-1P, Triglyceride POSt,sn
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 79-09-4DP, Propionic acid, racemic or chiral esters
RL: BMF (Bioindustrial manufacture); BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 93-35-6DP, Umbelliferone, fatty acid esters
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BIOL (Biological study); PREP (Preparation)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 9001-62-1P, Lipase 9001-92-7P, Proteinase 9013-79-0P, Esterase 9013-93-8P, Phospholipase 9027-41-2P, Hydrolase 9040-75-9P, Monoacylglycerol lipase 83137-80-8P, Diacylglycerol lipase 135371-38-9P, Monoacylglycerol-diacylglycerol lipase 287970-25-6P, Triacylglycerol 1,3-specific lipase
RL: BPN (Biosynthetic preparation); CAT (Catalyst use); FFD (Food or feed use); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 23981-80-8, 2-(6-Methoxy-2-naphthyl)propionic acid
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 79-10-7, Acrylic acid, biological studies 79-10-7D, Acrylic acid, alkyl derivs. 79-41-4, Methacrylic acid, biological studies **96-33-3**, Methyl acrylate 97-65-4, Itaconic acid, biological studies 105-37-3, Ethyl propionate 140-88-5, Ethyl acrylate 141-32-2, Butyl acrylate 925-60-0, Propyl acrylate 3724-65-0, Crotonic acid
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 849388-97-2P 849388-99-4P 849389-01-1P 849389-03-3P 849389-05-5P
849389-07-7P 849389-09-9P 849389-11-3P 849389-13-5P 849389-15-7P
849389-17-9P 849389-19-1P 849389-21-5P 849389-23-7P 849389-25-9P
849389-27-1P 849389-29-3P 849389-31-7P 849389-33-9P 849389-35-1P
849389-37-3P 849389-39-5P 849389-41-9P 849389-43-1P 849389-45-3P
849389-47-5P 849389-49-7P 849389-51-1P 849389-53-3P 849389-55-5P
849389-57-7P 849389-59-9P 849389-61-3P 849389-63-5P 849389-65-7P
849389-67-9P 849389-69-1P 849389-71-5P 849389-73-7P 849389-75-9P
849389-77-1P 849389-79-3P 849389-81-7P 849389-83-9P 849389-85-1P
849389-87-3P 849389-89-5P 849389-91-9P 849389-93-1P 849389-95-3P
849389-97-5P 849389-99-7P 849390-01-8P 849390-03-0P 849390-05-2P
849390-07-4P 849390-09-6P 849390-11-0P 849390-13-2P 849390-15-4P
849390-17-6P 849390-19-8P 849390-21-2P 849390-23-4P 849390-25-6P
849390-27-8P 849390-29-0P 849390-31-4P 849390-33-6P 849390-35-8P

849390-37-0P 849390-39-2P 849390-41-6P 849390-43-8P 849390-45-0P
849390-47-2P 849390-49-4P 849390-51-8P 849390-53-0P 849390-55-2P
849390-57-4P 849390-59-6P 849390-61-0P 849390-63-2P 849390-65-4P
849390-67-6P 849390-69-8P 849390-71-2P 849390-73-4P 849390-75-6P
849390-77-8P 849390-79-0P 849390-81-4P 849390-83-6P 849390-85-8P
849390-87-0P 849390-89-2P 849390-91-6P 849390-93-8P 849390-95-0P
849390-97-2P 849390-99-4P 849391-01-1P 849391-03-3P 849391-06-6P
849391-08-8P 849391-10-2P 849391-12-4P 849391-14-6P 849391-16-8P
849391-18-0P 849391-20-4P 849391-22-6P 849391-24-8P 849391-26-0P
849391-28-2P 849391-30-6P 849391-32-8P 849391-34-0P 849391-36-2P
849391-38-4P 849391-40-8P 849391-42-0P 849391-44-2P 849391-46-4P
849391-48-6P 849391-50-0P 849391-52-2P 849391-54-4P 849391-56-6P
849391-58-8P 849391-60-2P 849391-62-4P 849391-64-6P 849391-66-8P
849391-68-0P 849391-70-4P 849391-72-6P 849391-74-8P 849391-76-0P
849391-78-2P 849391-80-6P 849391-82-8P 849391-84-0P 849391-86-2P
849391-88-4P 849391-90-8P 849391-92-0P 849391-94-2P 849391-96-4P
849391-98-6P 849392-00-3P 849392-02-5P 849392-04-7P 849392-06-9P
849392-08-1P 849392-10-5P 849392-12-7P 849392-14-9P 849392-16-1P
849392-18-3P 849392-20-7P 849392-22-9P 849392-24-1P 849392-26-3P
849392-28-5P 849392-30-9P 849392-32-1P 849392-34-3P 849392-36-5P
849392-38-7P 849392-40-1P 849392-42-3P 849392-44-5P 849392-46-7P
849392-48-9P 849392-50-3P 849392-52-5P 849392-54-7P 849392-56-9P
849392-58-1P 849392-60-5P 849392-62-7P 849392-64-9P 849392-66-1P
849392-68-3P 849392-70-7P 849392-72-9P 849392-74-1P 849392-76-3P
849392-78-5P 849392-80-9P 849392-82-1P 849392-84-3P 849392-86-5P
849392-88-7P 849392-90-1P 849392-92-3P 849392-94-5P 849392-96-7P
849392-98-9P 849393-00-6P 849393-02-8P 849393-04-0P 849393-06-2P
849393-08-4P 849393-10-8P 849393-12-0P 849393-14-2P 849393-16-4P
849393-18-6P 849393-20-0P 849393-22-2P 849393-24-4P 849393-26-6P
849393-28-8P 849393-30-2P 849393-32-4P 849393-34-6P 849393-36-8P
849393-38-0P 849393-40-4P 849393-42-6P 849393-44-8P 849393-46-0P
849393-48-2P 849393-50-6P 849393-52-8P 849393-54-0P 849393-56-2P
849393-58-4P 849393-60-8P 849393-62-0P

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleotide sequence; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 849393-64-2P 849393-66-4P 849393-68-6P 849393-70-0P 849393-72-2P
849393-74-4P 849393-76-6P 849393-78-8P 849393-80-2P 849393-82-4P
849393-84-6P 849393-86-8P 849393-88-0P 849393-90-4P 849393-92-6P
849393-94-8P 849393-96-0P 849393-98-2P 849394-00-9P 849394-02-1P
849394-04-3P 849394-06-5P 849394-08-7P 849394-10-1P 849394-12-3P
849394-14-5P 849394-16-7P 849394-18-9P 849394-20-3P 849394-22-5P
849394-24-7P 849394-26-9P 849394-28-1P 849394-30-5P 849394-32-7P
849394-34-9P 849394-36-1P 849394-38-3P 849394-40-7P 849394-42-9P
849394-44-1P 849394-46-3P 849394-48-5P 849394-50-9P 849394-52-1P
849394-54-3P 849394-56-5P 849394-58-7P 849394-60-1P 849394-62-3P
849394-64-5P 849394-66-7P 849394-68-9P 849394-70-3P 849394-72-5P
849394-74-7P 849394-76-9P 849394-78-1P 849394-80-5P 849394-82-7P
849394-84-9P 849394-86-1P 849394-88-3P 849394-90-7P 849394-92-9P
849394-94-1P 849394-96-3P 849394-98-5P 849395-00-2P 849395-02-4P
849395-04-6P 849395-06-8P 849395-08-0P 849395-10-4P 849395-12-6P
849395-14-8P 849395-16-0P 849395-18-2P 849395-20-6P 849395-22-8P
849395-24-0P 849395-26-2P 849395-28-4P 849395-30-8P 849395-32-0P
849395-34-2P 849395-36-4P 849395-38-6P 849395-40-0P 849395-42-2P
849395-44-4P 849395-46-6P 849395-48-8P 849395-50-2P 849395-52-4P
849395-54-6P 849395-56-8P 849395-58-0P 849395-60-4P 849395-62-6P
849395-64-8P 849395-66-0P 849395-68-2P 849395-70-6P 849395-72-8P

849395-74-0P 849395-76-2P 849395-78-4P 849395-80-8P 849395-82-0P
849395-84-2P 849395-86-4P 849395-88-6P 849395-90-0P 849395-92-2P
849395-94-4P 849395-96-6P 849395-98-8P 849396-00-5P 849396-02-7P
849396-04-9P 849396-06-1P 849396-08-3P 849396-10-7P 849396-12-9P
849396-14-1P 849396-16-3P 849396-18-5P 849396-20-9P 849396-22-1P
849396-24-3P 849396-26-5P 849396-28-7P 849396-30-1P 849396-32-3P
849396-34-5P 849396-36-7P 849396-38-9P 849396-40-3P 849396-42-5P
849396-44-7P 849396-46-9P 849396-48-1P 849396-50-5P 849396-52-7P
849396-54-9P 849396-56-1P 849396-58-3P 849396-60-7P 849396-62-9P
849396-64-1P 849396-66-3P 849396-68-5P 849396-70-9P 849396-72-1P
849396-74-3P 849396-76-5P 849396-78-7P 849396-80-1P 849396-82-3P
849396-84-5P 849396-86-7P 849396-88-9P 849396-90-3P 849396-92-5P
849396-94-7P 849396-96-9P 849396-98-1P 849397-00-8P 849397-02-0P
849397-04-2P 849397-06-4P 849397-08-6P 849397-10-0P 849397-12-2P
849397-14-4P 849397-16-6P 849397-18-8P 849397-20-2P 849397-22-4P
849397-24-6P 849397-26-8P 849397-28-0P 849397-30-4P 849397-32-6P
849397-34-8P 849397-36-0P 849397-38-2P 849397-40-6P 849397-42-8P
849397-44-0P 849397-46-2P 849397-48-4P 849397-50-8P 849397-52-0P
849397-54-2P 849397-56-4P 849397-58-6P 849397-60-0P 849397-62-2P
849397-64-4P 849397-66-6P 849397-68-8P 849397-70-2P 849397-72-4P
849397-74-6P 849397-76-8P 849397-78-0P 849397-80-4P 849397-82-6P
849397-84-8P 849397-86-0P 849397-88-2P 849397-90-6P 849397-92-8P
849397-94-0P 849397-96-2P 849397-98-4P 849398-00-1P 849398-02-3P
849398-04-5P 849398-06-7P 849398-08-9P 849398-10-3P 849398-12-5P
849398-14-7P 849398-16-9P 849398-18-1P 849398-20-5P 849398-22-7P
849398-24-9P 849398-26-1P 849398-28-3P
RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); BUU (Biological use, unclassified); PRP (Properties); BIOL (Biological study); PREP (Preparation); USES (Uses)
(nucleotide sequence; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 22071-15-4, Ketoprofen 94050-90-5, R-2-(4-Hydroxyphenoxypropionic acid
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(stereoselective hydrolysis of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 1400-26-6, Linin
RL: BSU (Biological study, unclassified); RCT (Reactant); BIOL (Biological study); RACT (Reactant or reagent)
(treatment of; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 849400-42-6 849400-44-8 849400-46-0 849400-48-2 849400-50-6
849400-52-8 849400-54-0 849400-56-2 849400-58-4 849400-60-8
849400-62-0 849400-64-2 849400-66-4 849400-68-6 849400-70-0
RL: PRP (Properties)
(unclaimed nucleotide sequence; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

IT 849400-43-7 849400-45-9 849400-47-1 849400-49-3 849400-51-7
849400-53-9 849400-55-1 849400-57-3 849400-59-5 849400-61-9
849400-63-1 849400-65-3 849400-67-5 849400-69-7 849400-71-1
RL: PRP (Properties)
(unclaimed protein sequence; hydrolases and their encoding nucleic acids from environmental samples and uses of the hydrolases, and in particular lipases, in synthetic and industrial processes)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM B01L
CC 9-1 (Biochemical Methods)

TI Thermocycler microplates for performing multiplex PCR
ST thermocycler microplate multiplex PCR
IT Polyolefins
RL: DEV (Device component use); USES (Uses)
(cyclic, plate; thermocycler microplates for performing multiplex PCR)
IT Membranes, nonbiological
(flexible, plate cover with; thermocycler microplates for performing multiplex PCR)
IT PCR (polymerase chain reaction)
(multiplex; thermocycler microplates for performing multiplex PCR)
IT Bar code labels
(plate comprising; thermocycler microplates for performing multiplex PCR)
IT Heaters
(plate cover; thermocycler microplates for performing multiplex PCR)
IT Glass, uses
Polyamides, uses
RL: DEV (Device component use); USES (Uses)
(plate cover; thermocycler microplates for performing multiplex PCR)
IT Liquid crystals, polymeric
(plate; thermocycler microplates for performing multiplex PCR)
IT Plastics, uses
Polycarbonates, uses
RL: DEV (Device component use); USES (Uses)
(plate; thermocycler microplates for performing multiplex PCR)
IT Adhesives
(pressure-sensitive, plate cover with seal comprising; thermocycler microplates for performing multiplex PCR)
IT Analytical apparatus
Canis familiaris
Coating materials
Embryophyta
Eubacteria
Fungi
Genome
Human
Insecta
Mammalia
Microtiter plates
Mus musculus
PCR (polymerase chain reaction)
Plates
Primates
Rattus
Screws
Virus
Yeast
(thermocycler microplates for performing multiplex PCR)
IT Primers (nucleic acid)
Probes (nucleic acid)
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thermocycler microplates for performing multiplex PCR)
IT Fluoropolymers, uses
Polyesters, uses
RL: DEV (Device component use); USES (Uses)
(thermocycler microplates for performing multiplex PCR)
IT 7440-44-0, Carbon, uses
RL: DEV (Device component use); USES (Uses)
(filler, plate comprising; thermocycler microplates for performing

multiplex PCR)
IT 7440-21-3, Silicon, uses 9002-84-0, Polytetrafluoroethylene 9004-35-7, Cellulose acetate 14808-60-7, Quartz, uses
RL: DEV (Device component use); USES (Uses)
(plate cover; thermocycler microplates for performing multiplex PCR)
IT 100-42-5, Styrene, uses **107-13-1**, Acrylonitrile, uses 9002-88-4, Polyethylene 9003-07-0, Polypropylene 9003-53-6, Polystyrene 25038-59-9, Polyethylene terephthalate, uses 28325-75-9, Syndiotactic polystyrene
RL: DEV (Device component use); USES (Uses)
(plate; thermocycler microplates for performing multiplex PCR)
IT 76823-03-5D, FAM, probe conjugate
RL: ARG (Analytical reagent use); BUU (Biological use, unclassified); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(thermocycler microplates for performing multiplex PCR)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM B01D039-16
ICS A62B023-02
CC 59-1 (Air Pollution and Industrial Hygiene)
TI Method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs
ST electrostatic fibrous material protection respiratory organs
IT Electrolytes
(additives; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT Electricity
(electrostatics, fibrous material of; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT Air filters
(for individual use; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT Filters
(method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT Synthetic fibers
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT Respiratory tract
(protection of; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT 123-86-4, Butyl acetate
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(Et acetate as solvent; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT 66-40-0, Tetraethyl-ammonium 10549-76-5, Tetrabutyl-ammonium
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(bromide or iodide salts of; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT 67-64-1, Acetone, analysis
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(component of org. solvent; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT 100-42-5, Styrene, analysis
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(copolymer; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT 80-62-6, Methylmethacrylate
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(high-mol.; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT **107-13-1**, Acrylonitrile, analysis
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
IT 141-78-6, Ethyl acetate, analysis
RL: ARU (Analytical role, unclassified); BUU (Biological use, unclassified); TEM (Technical or engineered material use); ANST (Analytical study); BIOL (Biological study); USES (Uses)
(with Bu acetate as solvent; method for prodn. of a electrostatic forming fibrous material for protection of respiratory organs)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 4-3 (Toxicology)
TI Acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats
ST acrylonitrile hearing loss cochlea damage noise
IT Noise
Ototoxicity
Oxidative stress, biological
(acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats)
IT Reactive oxygen species
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats)
IT Ear
(cochlea; acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats)
IT Hearing
(loss; acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats)
IT Ear
(organ of Corti, hair cell; acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats)
IT **107-13-1**, Acrylonitrile, biological studies
RL: ADV (Adverse effect, including toxicity); BIOL (Biological study)
(acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats)
IT 7782-44-7D, Oxygen, reactive species
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(acrylonitrile potentiates hearing loss and cochlear damage induced by moderate noise exposure in rats)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM C08F008-32
INCL 525379000

CC 38-3 (Plastics Fabrication and Uses)
TI Adhesive detackification
ST adhesive detackfier teriary amine bilophine friction solvent activation
IT Adhesives
(adhesive detackification)
IT Styrene-butadiene rubber, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(block, Kraton KX 222; adhesive detackification)
IT Tackifiers
(detackifiers; adhesive detackification)
IT Amines, uses
RL: MOA (Modifier or additive use); USES (Uses)
(tertiary; adhesive detackification)
IT 105-59-9, N-Methyldiethanolamine 7189-42-6, Bilophine
RL: MOA (Modifier or additive use); USES (Uses)
(adhesive detackification)
IT 80-62-6, Methyl methacrylate **96-33-3**, Methyl acrylate
109-16-0, Triethylene glycol dimethacrylate 140-88-5, Ethyl acrylate
999-55-3, Allyl acrylate 1188-09-6, 1,3-Propanediol dimethacrylate
2274-11-5, Ethylene glycol diacrylate 2499-95-8, n-Hexyl acrylate
3253-41-6, Pentaerythritol tetramethacrylate 4074-88-8, Diethylene
glycol diacrylate 4655-34-9, Isopropyl methacrylate 4813-57-4, Stearyl
acrylate 4986-89-4, Pentaerythritol tetraacrylate 5459-38-1, Glycerol
triacrylate 24493-53-6, 1,3-Propanediol diacrylate 34869-20-0,
1,4-Cyclohexanediol diacrylate 52174-50-2, Glycerol diacrylate
63521-16-4, 1,2,4-Butanetriol trimethacrylate
RL: MOA (Modifier or additive use); USES (Uses)
(solvents; adhesive detackification)
IT 3524-68-3, Pentaerythritol triacrylate 15625-89-5, Trimethylolpropane
triacrylate
RL: MOA (Modifier or additive use); NUU (Other use, unclassified); USES
(Uses)
(solvents; adhesive detackification)
IT 106107-54-4D, block
RL: TEM (Technical or engineered material use); USES (Uses)
(styrene-butadiene rubber, Kraton KX 222; adhesive detackification)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 47-2 (Apparatus and Plant Equipment)
TI Performance and applications of home-made cyclone separators in
acrylonitrile reactors
ST cyclone separator acrylonitrile reactor
IT Cyclone separators
Reactors
(performance and applications of cyclone separators in acrylonitrile
reactors)
IT **107-13-1P**, Acrylonitrile, preparation
RL: IMF (Industrial manufacture); PREP (Preparation)
(performance and applications of cyclone separators in acrylonitrile
reactors)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM B01D069-08
ICS B01D063-02
INCL 210500230; 210490000; 210321800
CC 63-7 (Pharmaceuticals)
Section cross-reference(s): 38
TI Cationic polymer-treated membrane unit element, semipermeable membrane,
filtration device, and processes for manufacturing them
ST cationic polymer semipermeable membrane extracorporeal filtration device
IT Membrane, biological
Ultrafilters

(cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT Synthetic polymeric fibers, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT Polyelectrolytes
(cationic; cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT Circulation
(extracorporeal; cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT Dialyzers
(hemodialyzers; cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT Polymers, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(mixt. contg.; cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT Quaternary ammonium compounds, biological studies
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(polymers; cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT Membrane, biological
(semipermeable; cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
IT **107-13-1D**, Acrylonitrile, copolymers 9002-98-6 9015-73-0, Diethylaminoethyldextran 27103-76-0, Acrylonitrile-sodium methallyl sulfonate copolymer 30110-91-9, AN 69
RL: DEV (Device component use); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(cationic polymer-treated membrane unit element, semipermeable membrane, and filtration device for extracorporeal circulation)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 24-3 (Alicyclic Compounds)
TI A practical catalytic method for preparing highly substituted cyclobutanes and cyclobutenes
ST silyl enol ether acrylate cycloaddn; cyclobutane stereoselective prepn; cyclobutene stereoselective prepn
IT Cycloaddition reaction
([2+2], stereoselective; stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)
IT Ethers, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(enol, silyl; stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)
IT Cycloaddition reaction catalysts

Stereoselective synthesis
(stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)

IT Cycloalkanes
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)

IT Esters, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(α,β-unsatd.; stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)

IT 82113-65-3, Bis(trifluoromethanesulfonyl)amine
RL: CAT (Catalyst use); USES (Uses)
(stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)

IT 80-62-6, Methyl methacrylate **96-33-3**, Methyl acrylate 623-47-2, Ethyl propynoate 18707-60-3, Methyl 2-butenoate 20152-33-4 62791-22-4 66324-10-5 68081-15-2 68081-19-6 681146-86-1 850132-91-1 850132-94-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)

IT 68081-25-4P 68081-31-2P 70645-32-8P 657428-60-9P 657428-75-6P 850132-85-3P 850132-86-4P 850132-87-5P 850132-88-6P 850132-89-7P 850132-90-0P 850132-92-2P 850132-93-3P 850132-95-5P 850132-96-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective prepn. of substituted cyclobutanes and cyclobutenes via stereoselective [2 + 2]-cycloaddn. of silyl enol esters with alkenoates or alkynoate catalyzed by bis(trifluoromethanesulfonyl)amine)

IT 502-42-1, Cycloheptanone
RL: RCT (Reactant); RACT (Reactant or reagent)
(stereoselective prepn. of substituted cyclobutanes via silylation of cycloheptanone followed by stereoselective [2 + 2]-cycloaddn. of acrylate catalyzed by bis(trifluoromethanesulfonyl)amine)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN

CC 28-2 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1

TI Synthesis and anticancer activity of new pyrrolocarbazoles and pyrrolo-β-carbolines

ST indole acylate cyclization; cyclohexaindole prepn; pyrrolocarbazole prepn anticancer; pyrrolocarboline prepn anticancer

IT Antitumor agents
Leukemia
(prepn. and anticancer activity of pyrrolocarbazoles and pyrrolo-β-carbolines starting from cyanomethyl(vinyl)indole)

IT 850009-34-6P 850009-36-8P 850009-40-4P 850009-42-6P 850009-43-7P 850009-47-1P 850009-48-2P 850009-49-3P 850009-50-6P 850009-51-7P 850009-52-8P 850009-60-8P 850009-61-9P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and anticancer activity of pyrrolocarbazoles and pyrrolo-β-carbolines starting from cyanomethyl(vinyl)indole)

IT 850009-37-9P 850009-38-0P 850009-45-9P 850009-53-9P 850009-54-0P 850009-55-1P 850009-56-2P 850009-62-0P 850009-63-1P 850009-64-2P 850009-65-3P 850009-67-5P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)
(prepn. and anticancer activity of pyrrolocarbazoles and pyrrolo-β-carbolines starting from cyanomethyl(vinyl)indole)

IT **96-33-3**, Methyl acrylate 100-46-9, Benzylamine, reactions 108-00-9, N,N-Dimethyl-1,2-diaminoethane 120-72-9, Indole, reactions 773-64-8, Mesitylenesulfonyl chloride 930-88-1 1118-68-9, Dimethylaminoacetic acid 1631-26-1 2033-24-1 2913-97-5, N-(2-Oxoethyl)phthalimide 4584-46-7, N,N-Dimethyl-2-chloroethylamine hydrochloride 6300-04-5, 3-(Dimethylamino)propanoic acid 141621-80-9 850009-66-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and anticancer activity of pyrrolocarbazoles and pyrrolo-β-carbolines starting from cyanomethyl(vinyl)indole)

IT 136558-69-5P 246045-87-4P 502761-72-0P 502761-73-1P 502761-79-7P 676625-39-1P 850009-28-8P 850009-35-7P 850009-41-5P 850009-44-8P 850009-57-3P 850009-58-4P 850009-59-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. and anticancer activity of pyrrolocarbazoles and pyrrolo-β-carbolines starting from cyanomethyl(vinyl)indole)

IT 135554-64-2P 502761-80-0P 850009-26-6P 850009-30-2P 850009-32-4P 850009-33-5P 850009-39-1P 850009-46-0P 850009-68-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and anticancer activity of pyrrolocarbazoles and pyrrolo-β-carbolines starting from cyanomethyl(vinyl)indole)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM A62D005-00
CC 59-5 (Air Pollution and Industrial Hygiene)
Section cross-reference(s): 4, 40
TI Plasma-treated textile surfaces for adsorptive filter materials
ST plasma treatment laminar textile adsorption decompn chem warfare agent
IT Carbon fibers, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(activated, as adsorbent; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Filtration
(adsorptive; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Polyamide fibers, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(aramid, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Canvas
Nonwoven fabrics
(as carrier material; plasma-treated textile surfaces as adsorptive

filter materials to protect against chem. warfare gases and chem. contaminants)

IT Acetate fibers, uses
Acrylic fibers, uses
Carbon fibers, uses
Polyamide fibers, uses
Polyester fibers, uses
Polyolefin fibers
Polypropene fibers, uses
Polyvinyl chloride fibers
Rayon, uses
Spandex fibers
Synthetic polymeric fibers, uses
Vinal fibers
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Polyurethanes, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(as material for impermeable membrane layer; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Noble gases, uses
RL: NUU (Other use, unclassified); USES (Uses)
(as plasma gas; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Crosslinking
(by plasma treatment; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Fibers
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(cellulosic, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Gases
(chlorine-contg., as plasma gas; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Polysiloxanes, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(crosslinking of, onto carrier layers; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Polyurethane fibers
RL: TEM (Technical or engineered material use); USES (Uses)
(elastodiene, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Polyolefin fibers
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(ethylene, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and

chem. contaminants)
IT Rubber, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(fibers, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Safety devices
(gloves; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Membranes, nonbiological
(impermeable to toxins, permeable to water vapor; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Textiles
(knitted, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Textiles
(laminated; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Adhesives
(moisture-curable, polyurethane; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Chemical warfare agents
Cold plasma
Laminated materials
(plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Enzymes, uses
RL: CAT (Catalyst use); USES (Uses)
(plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Fluoropolymers, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Textiles
(plasma-treated; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Polyesters, uses
Polyethers, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(polyamide-, as material for impermeable membrane layer; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Polyamides, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(polyester-, as material for impermeable membrane layer; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)
IT Polyamides, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)

(polyether-, as material for impermeable membrane layer; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Films
(polymeric or polymerizable; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Safety devices
(protective clothing; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Clothing
Shoes
(protective; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Gloves
(safety; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Safety devices
(shoes; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Reactivity (chemical)
(surface, modification of, by plasma treatment; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Adhesives
(thermoplastic, moisture-curing polyurethane reactive adhesive; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Plastics, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(thermoplastics, fibers, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT Acetate fibers, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(triacetate, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT 7440-44-0, Activated carbon, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(activated, as adsorbent; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT 9002-84-0, Ptfe
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(as material for impermeable membrane layer and/or fibers, as carrier material; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT 124-38-9, Carbon dioxide, uses 630-08-0, Carbon monoxide, uses 7727-37-9, Nitrogen, uses 7782-44-7, Oxygen, uses 10028-15-6, Ozone, uses 11104-93-1, Nitrogen oxide, uses
RL: NUU (Other use, unclassified); USES (Uses)
(as plasma gas; plasma-treated textile surfaces as adsorptive filter

materials to protect against chem. warfare gases and chem. contaminants)

IT **107-13-1**, Acrylonitrile, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(carbonized and activated, as adsorbent; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT 7439-97-6, Mercury, uses 7440-05-3, Palladium, uses 7440-06-4, Platinum, uses 7440-22-4, Silver, uses 7440-43-9, Cadmium, uses 7440-50-8, Copper, uses 7440-66-6, Zinc, uses
RL: CAT (Catalyst use); USES (Uses)
(plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT 505-60-2, Bis(2 chloroethylsulfide)
RL: REM (Removal or disposal); PROC (Process)
(plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

IT 9004-34-6, Cellulose, uses
RL: NUU (Other use, unclassified); TEM (Technical or engineered material use); USES (Uses)
(polymers, as material for impermeable membrane layer, and/or carbonized and activated, as adsorbent; plasma-treated textile surfaces as adsorptive filter materials to protect against chem. warfare gases and chem. contaminants)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN

CC 31-4 (Alkaloids)

TI Synthesis of lupinine

ST quinolizine methanol lupinine prepn asym synthesis; annulation hydroxypentyl sulfonylacetamide propenoic ester lupinine prepn asym synthesis

IT Asymmetric synthesis and induction
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol])

IT Cyclization
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] via [3+3] annulation of N-[(hydroxy)pentyl][(methyl)phenyl]sulfonyl]acetamide with propenoic acid Me ester as key synthetic step)

IT 486-70-4P, Lupinine
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol])

IT 2508-29-4, 5-Amino-1-pentanol
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using (amino)pentanol as starting material)

IT 849334-40-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using (bromo)pentyl][(methyl)phenyl]sulfonyl]piperidinedione as synthetic intermediate)

IT 849334-38-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using (chloro)pentanamine as synthetic intermediate)

IT 824-79-3, p-Toluenesulfinic acid sodium salt
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using (methyl)benzenesulfinic acid salt as starting material)

IT **96-33-3**, 2-Propenoic acid methyl ester

RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using Me acrylate as starting material)

IT 849334-35-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using N-[(hydroxy)pentyl][(methyl)phenyl]sulfonyl]acetamide as synthetic intermediate)

IT 849334-34-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using [(hydroxy)pentyl][(methyl)phenyl]sulfonyl]piperidinedione as synthetic intermediate)

IT 849334-39-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using [(methyl)phenyl]sulfonyl]di(oxo)piperidinepentanal as synthetic intermediate)

IT 849334-37-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using [(methyl)phenyl]sulfonyl]quinolizinecarboxaldehyde as synthetic intermediate)

IT 849334-36-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using [di(methoxy)pentyl][(methyl)phenyl]sulfonyl]piperidinedione as synthetic intermediate)

IT 849334-33-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of lupinine [(R,R)-octa(hydro)quinolizine-1-methanol] using [di(methoxy)pentyl][(methyl)phenyl]sulfonyl]pyridine deriv. as synthetic intermediate)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM C07D487-14
ICS A61K031-519; A61K031-4747
INCL 514267000; 514278000; 544230000; 546018000
CC 28-2 (Heterocyclic Compounds (More Than One Hetero Atom))
Section cross-reference(s): 1, 27
TI Preparation of novel spiro compounds as neuropeptide Y antagonists
ST spiro compd prepn neuropeptide Y antagonist; pyrazolyloxospiroazaisobenzofurancyclohexanecarboxamide prepn neuropeptide Y receptor antagonist
IT Hormones, animal, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(abnormality; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)

IT Appetite
(bulimia; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)

IT Nervous system, disease
(central; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system

disorders, and metabolic diseases, etc.)
IT Mental disorder
(dementia; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
IT Mental disorder
(depression; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
IT Metabolism, animal
Reproduction, animal
Sexual behavior
(disorder; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
IT Lipids, biological studies
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(hyperlipidemia; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
IT Alcoholism
Analgesics
Anti-inflammatory agents
Antiarteriosclerotics
Anticholesteremic agents
Anticonvulsants
Antidepressants
Antihypertensives
Antiobesity agents
Anxiety
Anxiolytics
Arteriosclerosis
Cardiovascular agents
Cardiovascular system, disease
Diabetes mellitus
Digestive tract, disease
Drug withdrawal
Epilepsy
Glaucoma (disease)
Heart, disease
Human
Hypercholesterolemia
Hypertension
Hypolipemic agents
Inflammation
Kidney, disease
Obesity
Pain
Respiratory tract, disease
Seizures
(prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
IT Neuropeptide Y receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
IT Spiro compounds
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)

IT Blood vessel, disease
(spasm; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)

IT Heterocyclic compounds
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(spiro heterocyclic compds.; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)

IT 82785-45-3, Neuropeptide Y
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(;prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)

IT 25952-53-8P, 1-[3-(Dimethylamino)propyl]-3-ethylcarbodiimide hydrochloride
221040-07-9P 379238-80-9P 478014-34-5P 478014-35-6P 478014-37-8P
478014-38-9P 478014-39-0P 844474-90-4P 844474-92-6P 844474-93-7P
844474-94-8P 844474-95-9P 844474-96-0P 844474-97-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)

IT 478012-86-1P 478012-87-2P 478012-88-3P 478012-89-4P 478012-90-7P
478012-91-8P 478012-92-9P 478012-93-0P 478012-94-1P 478012-95-2P
478012-96-3P 478012-97-4P 478012-98-5P 478012-99-6P 478013-00-2P
478013-02-4P 478013-03-5P 478013-04-6P 478013-05-7P 478013-06-8P
478013-07-9P 478013-08-0P 478013-09-1P 478013-10-4P 478013-11-5P
478013-12-6P 478013-13-7P 478013-14-8P 478013-15-9P 478013-16-0P
478013-17-1P 478013-18-2P 478013-19-3P 478013-20-6P 478013-21-7P
478013-22-8P 478013-23-9P 478013-24-0P 478013-25-1P 478013-26-2P
478013-27-3P 478013-28-4P 478013-29-5P 478013-30-8P 478013-31-9P
478013-32-0P 478013-33-1P 478013-34-2P 478013-35-3P 478013-36-4P
478013-37-5P 478013-38-6P 478013-39-7P 478013-40-0P 478013-41-1P
478013-42-2P 478013-43-3P 478013-44-4P 478013-45-5P 478013-46-6P
478013-47-7P 478013-48-8P 478013-49-9P 478013-50-2P 478013-51-3P
478013-52-4P 478013-53-5P 478013-54-6P 478013-55-7P 478013-56-8P
478013-57-9P 478013-58-0P 478013-59-1P 478013-60-4P 478013-61-5P
478013-62-6P 478013-63-7P 478013-64-8P 478013-65-9P 478013-66-0P
478013-67-1P 478013-68-2P 478013-69-3P 478013-70-6P 478013-71-7P
478013-72-8P 478013-73-9P 478013-74-0P 478013-75-1P 478013-76-2P
478013-77-3P 478013-78-4P 478013-79-5P 478013-80-8P 478013-81-9P
478013-82-0P 478013-83-1P 478013-84-2P 478013-85-3P 478013-86-4P
478013-87-5P 478013-88-6P 478013-89-7P 478013-90-0P 478013-91-1P
478013-92-2P 478013-93-3P 478013-94-4P 478013-95-5P 478013-96-6P
478013-97-7P 478013-98-8P 478013-99-9P 478014-00-5P 478014-01-6P
478014-02-7P 478014-03-8P 478014-04-9P 478014-05-0P 478014-06-1P
478014-07-2P 478014-08-3P 478014-09-4P 478014-10-7P 478014-11-8P
478014-12-9P 478014-13-0P 478014-14-1P 478014-15-2P 478014-16-3P
478014-17-4P 478014-18-5P 478014-19-6P 478014-20-9P 478014-21-0P
478014-22-1P 478014-23-2P 478014-24-3P 478014-25-4P 478014-26-5P
478014-30-1P 478014-31-2P 478014-32-3P 844474-91-5P 844474-98-2P
844474-99-3P 844475-00-9P 844475-01-0P 844475-02-1P 844475-03-2P

844475-04-3P 844475-05-4P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
IT 75-65-0, reactions 100-39-0, Benzyl bromide 100-44-7, Benzyl chloride, reactions **107-13-1**, Acrylonitrile, reactions 348-54-9, 2-Fluoroaniline 394-41-2, 3-Fluoro-4-nitrophenol 638-07-3, Ethyl 4-chloro-3-oxobutanoate 7677-24-9, Trimethylsilyl cyanide 26386-88-9, Diphenylphosphoryl azide 190060-72-1 328232-95-7 328233-20-1 328233-23-4 685094-07-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(reactant; prepn. of novel spiro compds. as neuropeptide Y antagonists for treating cardiovascular disorders, central nervous system disorders, and metabolic diseases, etc.)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 73-9 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
TI A detailed study of the rotating toroids in G31.41+0.31 and G24.78+0.08
ST high massive star forming region rotating toroid study
IT Stars
(rotating toroids in high-mass regions G31.41+0.31 and G24.78+0.08 forming)
IT 64-17-5, Ethanol, properties 67-56-1, Methanol, properties 75-05-8, Acetonitrile, properties 75-13-8, Isocyanic acid 107-12-0, Propanenitrile **107-13-1**, Propenenitrile, properties 107-31-3, Methyl formate 123-38-6, Propanal, properties 141-46-8, Hydroxyacetaldehyde 630-08-0, Carbon monoxide, properties 917-71-5, Formic-d acid 1641-69-6, Carbon-13C monoxide 1722-09-4, Acetonitrile-2-13C 12144-08-0, Carbon monosulfide-34S 12357-66-3, Nitrogen(1+), hydrodi- 31432-55-0, Acetonitrile-1-13C 54321-10-7, Propanenitrile-2-13C 109545-34-8, Thioxoethenylidene-34S
RL: GOC (Geological or astronomical occurrence); PRP (Properties); OCCU (Occurrence)
(spectral lines in spectra of rotating toroids in high-mass star forming regions G31.41+0.31 and G24.78+0.08)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 73-5 (Optical, Electron, and Mass Spectroscopy and Other Related Properties)
TI Modulation of the Photophysical Properties of C60 by Electronic Confinement Effect
ST electronic confinement fluorescence fullerene mesoporous material
IT High-silica zeolites
RL: PRP (Properties)
(UTD 1; modulation of photophys. properties of C60 by electronic confinement effect)
IT Size effect
(confinement; modulation of photophys. properties of C60 by electronic confinement effect)
IT Porous materials
(mesoporous; modulation of photophys. properties of C60 by electronic confinement effect)
IT Porous materials
(microporous; modulation of photophys. properties of C60 by electronic confinement effect)
IT Fluorescence
Raman spectra
(modulation of photophys. properties of C60 by electronic confinement

effect)
IT Zeolite MCM-41
Zeolite NaY
RL: PRP (Properties)
(modulation of photophys. properties of C60 by electronic confinement effect)
IT 99685-96-8, Fullerene (C60)
RL: PRP (Properties)
(modulation of photophys. properties of C60 by electronic confinement effect)
IT **107-13-1D**, 2-Propenenitrile, hydrogenated, Michael-addn.
dendrimers, dendrimer
RL: PRP (Properties)
(polypropyleneimine; modulation of photophys. properties of C60 by electronic confinement effect)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 27-1 (Heterocyclic Compounds (One Hetero Atom))
TI A fluorous-phase Pummerer cyclative-capture strategy for the synthesis of nitrogen heterocycles
ST fluorous tagged nitrogen heterocycle prepn reductive removal fluorous tag
IT Heterocyclic compounds
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(nitrogen; prepn. of fluorous-tagged nitrogen heterocycles via Pummerer cyclative-capture strategy and subsequent Michael addn., alkylation, oxidn., or Pd-catalyzed cross-coupling reactions)
IT Alkylation
Cross-coupling reaction
Cyclization
Michael reaction
Oxidation
(prepn. of fluorous-tagged nitrogen heterocycles via Pummerer cyclative-capture strategy and subsequent Michael addn., alkylation, oxidn., or Pd-catalyzed cross-coupling reactions)
IT 13813-25-7, Samarium iodide
RL: RGT (Reagent); RACT (Reactant or reagent)
(prepn. of fluorous-tagged nitrogen heterocycles and traceless reductive removal of the fluorous tag in presence of samarium iodide)
IT 847550-68-9P 847550-69-0P 847550-70-3P 847550-71-4P 847550-72-5P
847550-73-6P 847550-74-7P 847550-75-8P 847550-76-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of fluorous-tagged nitrogen heterocycles and traceless reductive removal of the fluorous tag in presence of samarium iodide)
IT 79-22-1, Methyl chloroformate **96-33-3**, Methyl acrylate
105-36-2, Ethyl bromoacetate 106-95-6, Allyl bromide, reactions
107-19-7, Propargyl alcohol 1066-54-2, Trimethylsilylacetylene
1692-25-7, 3-Pyridineboronic acid 6165-68-0, 2-Thienylboronic acid
17933-03-8, m-Tolylboronic acid 34143-74-3 80527-34-0 80527-36-2
82554-14-1 847550-48-5 847550-49-6 847550-50-9 847550-51-0
847550-52-1 847550-53-2 847550-54-3 847550-55-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of fluorous-tagged nitrogen heterocycles via Pummerer cyclative-capture strategy and subsequent Michael addn., alkylation, oxidn., or Pd-catalyzed cross-coupling reactions)
IT 847550-40-7P 847550-41-8P 847550-44-1P 847550-46-3P 847550-56-5P
847550-57-6P 847550-58-7P 847550-59-8P 847550-60-1P 847550-61-2P
847550-62-3P 847550-64-5P 847550-65-6P 847550-66-7P 847550-67-8P
847550-77-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. of fluorous-tagged nitrogen heterocycles via Pummerer cyclative-capture strategy and subsequent Michael addn., alkylation, oxidn., or Pd-catalyzed cross-coupling reactions)

IT 847550-37-2P 847550-38-3P 847550-39-4P 847550-42-9P 847550-43-0P
847550-45-2P 847550-47-4P 847550-63-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of fluorous-tagged nitrogen heterocycles via Pummerer cyclative-capture strategy and subsequent Michael addn., alkylation, oxidn., or Pd-catalyzed cross-coupling reactions)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM C08G083-00
CC 35-5 (Chemistry of Synthetic High Polymers)
TI Method for producing hyperbranched polymers
ST hyperbranched polymer manuf; hydroxyethyliminodipropionate dibutyl polymer hyperbranched; ethanolamine reaction butyl acrylate
IT Dendritic polymers
RL: IMF (Industrial manufacture); PREP (Preparation)
(hyperbranched; prodn. of hyperbranched polymers)
IT Inks
(printing; prodn. of hyperbranched polymers for use in printing inks)
IT Adhesives
(prodn. of hyperbranched polymers for use in adhesives)
IT Coating materials
(prodn. of hyperbranched polymers for use in coatings)
IT Plastic foams
RL: IMF (Industrial manufacture); PREP (Preparation)
(prodn. of hyperbranched polymers for use in foams)
IT 91145-16-3P 831216-48-9P
RL: IMF (Industrial manufacture); PREP (Preparation)
(hyperbranched; prodn. of hyperbranched polymers)
IT 85997-58-6P 831216-45-6P
RL: IMF (Industrial manufacture); PREP (Preparation)
(prepn.)
IT **96-33-3**, Methyl acrylate 141-43-5, Ethanolamine, reactions
1663-39-4, tert-Butyl acrylate
RL: RCT (Reactant); RACT (Reactant or reagent)
(reaction of ethanolamine with alkyl acrylates)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM C11B009-00
ICS A23L001-22; A23L001-222; A23L001-226
CC 17-6 (Food and Feed Chemistry)
TI Fruit-like flavor compositions
ST fruit flavor ester alc aldehyde acetal; ketone ketal phenol ether fruit flavor; lactone hydrocarbon acid fruit flavor food; nitrogen sulfur compd fruit flavor food
IT Jasminum
Rosa
(abs.; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(anise; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(birch; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Bakery products
(buns, steamed; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Beverages
(carbonated; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(cascarilla; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(cherry; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(cinnamon; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(clove; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(coriander seed; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Cheese
(dessert gels; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Food gels
(desserts; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Carboxylic acids, biological studies
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(dicarboxylic, esters; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Prunus mume
(flavor compns.; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)
IT Ananas comosus
Betula
Blackberry
Carica papaya
Cinnamon (spice)
Citrus aurantifolia
Citrus bergamia
Citrus limon
Citrus reticulata

Citrus sinensis
Coriandrum sativum
Cucumis melo
Eucalyptus
Fragaria ananassa
Geranium (horticultural common name)
Illicium
Malus pumila
Mangifera indica
Musa acuminata
Prunus armeniaca
Prunus avium
Prunus domestica
Prunus persica
Psidium guajava
Raspberry
Syzygium aromaticum
Vitis vinifera
(flavor; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Alcoholic beverages
Beverages
Candy
Chocolate
Confectionery
Flavor
Flavoring materials
Food gels
Frozen desserts
Fruit
Milk preparations
(fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Acetals
Acids, biological studies
Alcohols, biological studies
Aldehydes, biological studies
Esters, biological studies
Ethers, biological studies
Hydrocarbons, biological studies
Ketals
Ketones, biological studies
Lactones
Phenols, biological studies
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Desserts
(gels; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(geranium; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Essential oils

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(lemon; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(mandarin orange; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Resins
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(oleoresins, Orris; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Iris (plant)
(oleoresins; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(orange, sweet; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(petitgrain; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(rose; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Essential oils
RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(sour orange neroli; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Bakery products
(sponge cakes; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Beverages
(sports; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT Ananas comosus
(thiolated; fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT 57-10-3, Hexadecanoic acid, biological studies 60-12-8, β-Phenylethyl alcohol 64-18-6, Formic acid, biological studies 64-19-7, Acetic acid, biological studies 66-25-1, Hexanal 67-63-0, Isopropyl alcohol, biological studies 67-64-1, Acetone, biological studies 71-23-8, Propyl alcohol, biological studies 71-36-3, Butanol, biological studies 71-41-0, Amyl alcohol, biological studies 75-07-0, Acetaldehyde, biological studies 75-18-3, Dimethyl sulfide 76-49-3, Bornyl acetate 77-83-8, 3-Methyl-3-phenylglycidic acid ethyl ester 78-35-3, Linalyl isobutyrate 78-36-4, Linalyl butyrate 78-70-6, Linalool 78-83-1, Isobutyl alcohol, biological studies 78-84-2,

Isobutyraldehyde 78-92-2, 2-Butanol 79-09-4, Propionic acid, biological studies 79-20-9, Methyl acetate 79-31-2, Isobutyric acid 79-68-5, γ-Irone 79-69-6, α-Irone 79-70-9, β-Irone 79-76-5, γ-Ionone 79-77-6, β-Ionone 79-78-7 79-89-0, β-Isomethylionone 79-92-5, Camphene 80-56-8, α-Pinene 80-71-7, Cyclotene 85-91-6, Methyl N-methylanthranilate 87-20-7, Isoamyl salicylate 87-22-9 87-25-2, Ethyl anthranilate 87-29-6, Cinnamyl anthranilate 87-44-5, β-Caryophyllene 87-91-2, Diethyl tartrate 88-09-5, 2-Ethylbutyric acid 89-43-0, Aurantiol 89-80-5, Menthone 89-83-8, Thymol 90-02-8, Salicylaldehyde, biological studies 90-05-1, Guaiacol 90-87-9, Hydratropaldehyde dimethyl acetal 93-08-3, β-Methyl naphthyl ketone 93-15-2, Eugenol methyl ether 93-16-3, Isoeugenol methyl ether 93-18-5, β-Naphthol ethyl ether 93-28-7, Eugenol acetate 93-29-8, Isoeugenol acetate 93-51-6, Creosol 93-53-8, Hydratropaldehyde 93-54-9, Phenylethylcarbinol 93-58-3, Methyl benzoate 93-89-0, Ethyl benzoate 93-92-5, Styrallyl acetate 94-30-4, Ethyl anisate 94-46-2, Isoamyl benzoate 94-47-3, Phenylethyl benzoate 94-48-4, Geranyl benzoate 96-17-3, 2-Methylbutanal 96-22-0, 3-Pentanone **96-33-3**, Methyl acrylate 96-48-0, γ-Butyrolactone 97-53-0, Eugenol 97-54-1, Isoeugenol 97-62-1, Ethyl 2-methylpropionate 97-64-3, Ethyl lactate 97-85-8, Isobutyl isobutyrate 97-87-0, Butyl isobutyrate 97-89-2, Citronellyl isobutyrate 98-00-0, Furfuryl alcohol 98-01-1, Furfural, biological studies 98-55-5, α-Terpineol 98-85-1, α-Phenylethyl alcohol 98-86-2, Acetophenone, biological studies 100-06-1, p-Methoxyacetophenone 100-42-5, Styrene, biological studies 100-51-6, Benzyl alcohol, biological studies 100-52-7, Benzaldehyde, biological studies 101-41-7, Methyl phenylacetate 101-48-4, Phenyl acetaldehyde dimethyl acetal 101-85-9, α-Amylcinnamic alcohol 101-86-0, α-Hexylcinnamic aldehyde 101-94-0, p-Cresyl phenylacetate 101-97-3, Ethyl phenylacetate 102-16-9, Benzyl phenylacetate 102-19-2, Isoamyl phenylacetate 102-20-5, Phenylethyl phenylacetate 102-22-7, Geranyl phenylacetate 103-05-9 103-07-1, Dimethylphenylethylcarbinyl acetate 103-09-3, 2-Ethylhexyl acetate 103-25-3 103-26-4, Methyl cinnamate 103-28-6, Benzyl isobutyrate 103-36-6, Ethyl cinnamate 103-37-7, Benzyl butyrate 103-38-8, Benzyl isovalerate 103-41-3, Benzyl cinnamate 103-45-7 103-48-0 103-52-6 103-53-7 103-54-8, Cinnamyl acetate 103-56-0, Cinnamyl propionate 103-58-2 103-59-3, Cinnamyl isobutyrate 103-60-6, Phenoxyethyl isobutyrate 103-61-7, Cinnamyl butyrate 103-82-2, Phenylacetic acid, biological studies 103-93-5, p-Cresyl isobutyrate 103-95-7, Cyclamen aldehyde 104-09-6, p-Methylphenylacetaldehyde 104-20-1, Anisyl acetone 104-46-1, Anethole 104-50-7, γ-Octalactone 104-53-0, Benzenepropanal 104-54-1, Cinnamic alcohol 104-55-2, Cinnamic aldehyde 104-57-4, Benzyl formate 104-61-0, γ-Nonalactone 104-62-1 104-65-4, Cinnamyl formate 104-67-6, γ-Undecalactone 104-76-7, 2-Ethylhexanol 104-87-0 105-13-5, Anise alcohol 105-21-5, γ-Heptalactone 105-37-3, Ethyl propionate 105-43-1, 3-Methylvaleric acid 105-45-3, Methyl acetoacetate 105-53-3, Diethyl malonate 105-54-4, Ethyl butyrate 105-57-7, Acetaldehyde diethyl acetal 105-66-8, Propyl butyrate 105-68-0, Isoamyl propionate 105-79-3, Isobutyl hexanoate 105-85-1, Citronellyl formate 105-86-2, Geranyl formate 105-87-3, Geranyl acetate 105-89-5, Rhodinyl propionate 105-90-8, Geranyl propionate 105-91-9, Neryl propionate 106-02-5, Cyclopentadecanolide 106-18-3, Butyl dodecanoate 106-21-8 106-22-9, Citronellol 106-23-0, Citronellal 106-24-1, Geraniol 106-26-3, Neral 106-27-4, Isoamyl butyrate 106-29-6, Geranyl butyrate 106-30-9, Ethyl heptanoate 106-32-1, Ethyl octanoate 106-33-2, Ethyl dodecanoate 106-36-5, Propyl

propionate 106-65-0, Dimethyl succinate 106-68-3, 3-Octanone 106-70-7, Methyl hexanoate 106-72-9, 2,6-Dimethyl-5-heptenal 106-73-0, Methyl heptanoate 107-31-3, Methyl formate 107-74-4, Hydroxycitronellol 107-75-5, Hydroxycitronellal 107-87-9, 2-Pentanone 107-92-6, Butyric acid, biological studies 108-21-4, Isopropyl acetate 108-59-8, Dimethyl malonate 108-64-5, Ethyl isovalerate 109-08-0, Methylpyrazine 109-15-9, Octyl isobutyrate 109-19-3, Butyl isovalerate 109-20-6, Geranyl isovalerate 109-21-7, Butyl butyrate 109-52-4, Valeric acid, biological studies 109-60-4, Propyl acetate 109-94-4, Ethyl formate 110-19-0, Isobutyl acetate 110-38-3, Ethyl decanoate 110-39-4, Octyl butyrate 110-42-9, Methyl decanoate 110-43-0, 2-Heptanone 110-45-2, Isoamyl formate 110-62-3, Valeraldehyde 110-74-7, Propyl formate 110-93-0, Methyl heptenone 111-11-5, Methyl octanoate 111-13-7, 2-Octanone 111-27-3, Hexanol, biological studies 111-55-7, Ethylene glycol diacetate 111-61-5, Ethyl stearate 111-62-6, Ethyl oleate 111-70-6, Heptyl alcohol 111-71-7, Heptanal 111-79-5, Methyl 2-nonenoate 111-82-0, Methyl dodecanoate 111-87-5, 1-Octanol, biological studies 112-05-0, Nonanoic acid 112-06-1, Heptyl acetate 112-12-9, 2-Undecanone 112-14-1, Octyl acetate 112-17-4, Decyl acetate 112-30-1, 1-Decanol 112-31-2, Decanal 112-32-3, Octyl formate 112-42-5, 1-Undecanol 112-45-8, 10-Undecenal 112-53-8, 1-Dodecanol 112-61-8, Methyl stearate 112-62-9, Methyl oleate 112-66-3, Dodecyl acetate 115-95-7, Linalyl acetate 115-99-1, Linalyl formate 116-53-0, 2-Methylbutyric acid 118-55-8, Phenyl salicylate 118-58-1, Benzyl salicylate 118-61-6, Ethyl salicylate 118-71-8, Maltol 119-36-8, Methyl salicylate 120-11-6, Benzyl isoeugenol 120-24-1, Isoeugenyl phenylacetate 120-45-6, Styrallyl propionate 120-50-3, Isobutyl benzoate 120-51-4, Benzyl benzoate 120-57-0, Heliotropin 120-92-3, Cyclopentanone 121-32-4, Ethylvanillin 121-33-5, Vanillin 121-98-2 122-00-9 122-40-7 122-43-0, Butyl phenylacetate 122-48-5, Zingerone

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT 122-57-6, Benzylidene acetone 122-63-4, Benzyl propionate 122-67-8, Isobutyl cinnamate 122-70-3, Phenylethyl propionate 122-72-5 122-74-7 122-78-1, Phenylacetaldehyde 122-91-8, Anisyl formate 122-97-4, 3-Phenylpropyl alcohol 122-99-6, Phenoxyethyl alcohol 123-11-5, Anisaldehyde, biological studies 123-19-3, Dipropyl ketone 123-25-1, Diethyl succinate 123-29-5, Ethyl nonanoate 123-35-3, Myrcene 123-38-6, Propanal, biological studies 123-51-3, Isoamyl alcohol 123-66-0, Ethyl hexanoate 123-68-2, Allyl hexanoate 123-69-3, Ambrettolide 123-72-8, Butanal 123-86-4, Butyl acetate 123-92-2, Isoamyl acetate 123-95-5, Butyl stearate 124-06-1, Ethyl tetradecanoate 124-07-2, Octanoic acid, biological studies 124-10-7, Methyl tetradecanoate 124-13-0, Octanal 124-19-6, Nonanal 124-25-4, Tetradecanal 126-64-7, Linalyl benzoate 127-17-3, Pyruvic acid, biological studies 127-41-3, α-Ionone 127-51-5, α-Isomethylionone 133-18-6, Phenylethyl anthranilate 134-20-3, Methyl anthranilate 134-28-1, Guaiac acetate 138-22-7, Butyl lactate 138-23-8, Rhodinyl isobutyrate 138-86-3, Limonene 139-70-8, Citronellyl phenylacetate 140-11-4, Benzyl acetate 140-26-1, Phenylethyl isovalerate 140-27-2, Cinnamyl isovalerate 140-39-6 140-67-0, Estragol 140-88-5, Ethyl acrylate 141-06-0, Propyl valerate 141-09-3, Rhodinyl formate 141-12-8, Neryl acetate 141-14-0, Citronellyl propionate 141-15-1, Rhodinyl butyrate 141-16-2, Citronellyl butyrate 141-27-5, Geranial 141-28-6, Diethyl adipate 141-78-6, Ethyl acetate, biological studies 141-97-9, Ethyl acetoacetate 142-19-8, Allyl heptanoate 142-50-7, Nerolidol 142-62-1, Hexanoic

acid, biological studies 142-92-7, Hexyl acetate 143-07-7, Dodecanoic acid, biological studies 143-08-8, 1-Nonanol 144-39-8, Linalyl propionate 150-78-7, Hydroquinone dimethyl ether 150-84-5, Citronellyl acetate 151-05-3, Dimethylbenzylcarbinyl acetate 290-37-9, Pyrazine 334-48-5, Decanoic acid 431-03-8, Diacetyl 432-25-7, β-Cyclocitral 470-67-7, 1,4-Cineole 470-82-6, 1,8-Cineole 488-10-8, cis-Jasmone 495-62-5, Bisabolene 496-77-5, 5-Hydroxy-4-octanone 499-75-2, Carvacrol 503-74-2, Isovaleric acid 505-10-2, 3-Methylthiopropanol 513-86-0, Acetoin 536-59-4, Perilla alcohol 536-60-7, Cumin alcohol 538-65-8, Butyl cinnamate 539-47-9D, Furanacrylic acid, esters 539-82-2, Ethyl valerate 539-88-8, Ethyl levulinate 539-90-2, Isobutyl butyrate 540-07-8, Amyl hexanoate 540-18-1, Amyl butyrate 540-42-1, Isobutyl propionate 542-55-2, Isobutyl formate 542-90-5, Ethyl thiocyanate 543-49-7, 2-Heptanol 544-40-1, Dibutyl sulfide 544-63-8, Tetradecanoic acid, biological studies 547-63-7, Methyl 2-methylpropionate 554-12-1, Methyl propionate 556-24-1, Methyl isovalerate 556-64-9, Methyl thiocyanate 556-82-1, Prenol 557-00-6, Propyl isovalerate 557-48-2, trans-2,cis-6-Nonadienal 564-94-3, Myrtenal 583-04-0, Allyl benzoate 586-62-9, Terpinolene 589-35-5, 3-Methyl-1-pentanol 589-38-8, 3-Hexanone 589-59-3, Isobutyl isovalerate 589-66-2, Isobutyl crotonate 589-75-3, Butyl octanoate 589-98-0, 3-Octanol 590-01-2, Butyl propionate 590-86-3, Isovaleraldehyde 591-68-4, Butyl valerate 591-80-0, 4-Pentenoic acid 592-84-7, Butyl formate 592-88-1, Diallyl sulfide 606-45-1, Methyl O-methoxybenzoate 608-68-4, Dimethyl tartrate 616-31-9, 3-Pentanethiol 620-02-0, 5-Methylfurfural 622-45-7, Cyclohexyl acetate 623-15-4, Furfural acetone 623-17-6, Furfuryl acetate 623-42-7, Methyl butyrate 623-43-8 623-70-1 624-13-5, Propyl octanoate 624-24-8, Methyl valerate 624-41-9, 2-Methylbutyl acetate 624-42-0, Ethyl isoamyl ketone 624-92-0, Dimethyl disulfide 626-77-7, Propyl hexanoate 626-82-4, Butyl hexanoate 627-93-0, Dimethyl adipate 628-63-7, Amyl acetate 628-99-9, 2-Nonanol 629-33-4, Hexyl formate 637-64-9, Tetrahydrofurfuryl acetate 637-65-0, Propionic acid tetrahydrofurfuryl ester 638-11-9, Isopropyl butyrate 638-25-5, Amyl octanoate 638-49-3, Amyl formate 644-49-5, Propyl isobutyrate 659-70-1, Isoamyl isovalerate 692-86-4 695-06-7, γ-Hexalactone 698-10-2, 5-Ethyl-3-hydroxy-4-methyl-2(5H)-furanone 698-76-0, δ-Octalactone 701-97-3D, Cyclohexylpropionic acid, esters 705-73-7, α-Propylphenethyl alcohol 705-86-2, δ-Decalactone 706-14-9, γ-Decalactone 713-95-1, δ-Dodecalactone 764-39-6, 2-Pentenal 764-49-8, Allyl thiocyanate 821-41-0, 5-Hexen-1-ol 821-55-6, 2-Nonanone 823-22-3, δ-Hexalactone 828-26-2, Trithioacetone 868-57-5, Methyl 2-methylbutyrate 923-69-3 925-78-0, 3-Nonanone 928-91-6, cis-4-Hexenol 928-94-9 928-95-0, trans-2-Hexenol 928-96-1, cis-3-Hexenol 928-97-2, trans-3-Hexenol 935-13-7D, 2-Furanpropanoic acid, esters 939-48-0, Isopropyl benzoate 999-40-6, Neryl butyrate 999-55-3, Allyl acrylate 1072-83-9, 2-Acetylpyrrole 1117-55-1, Hexyl octanoate 1118-27-0, Linalyl isovalerate 1123-85-9, Hydratropic alcohol 1128-08-1, Dihydrojasmone 1135-66-6, Isolongifolene 1142-85-4 1191-16-8, Prenyl acetate 1192-62-7, 2-Acetylfuran 1195-79-5, Fenchone 1322-55-0, Ethyl benzylacetoacetate 1323-00-8, Santalyl acetate 1331-83-5, Anisyl acetate 1333-38-6, Angelica lactone 1333-52-4, Methyl naphthyl ketone 1487-49-6, Methyl 3-hydroxybutyrate 1504-74-1, O-Methoxycinnamic aldehyde 1551-44-6, Cyclohexyl butyrate 1599-47-9, Hexanal dimethyl acetal 1599-49-1 1708-40-3 1731-84-6, Methyl nonanoate 1786-08-9, Nerol oxide 1838-81-9 1866-31-5, Allyl cinnamate 1901-26-4, 3-Methyl-4-phenyl-3-buten-2-one 2021-28-5, Ethyl 3-phenylpropionate 2035-99-6, Isoamyl octanoate 2050-01-3, Isoamyl

isobutyrate 2050-09-1, Isoamyl valerate 2051-78-7, Allyl butyrate 2052-14-4, Butyl salicylate 2065-23-8, Methyl phenoxyacetate 2111-75-3, Perillaldehyde 2142-94-1, Neryl formate 2153-26-6 2173-56-0, Amyl valerate 2173-57-1 2177-77-7, Methyl 2-methylvalerate 2198-61-0, Isoamyl hexanoate 2216-45-7, p-Methylbenzyl acetate 2216-81-1, Heptyl propionate 2277-19-2, cis-6-Nonenal 2305-05-7, γ-Dodecalactone 2305-25-1, Ethyl 3-hydroxyhexanoate 2306-91-4, Isoamyl decanoate 2315-68-6, Propyl benzoate 2345-26-8, Geranyl isobutyrate 2349-07-7, Hexyl isobutyrate 2351-90-8 2363-88-4, 2,4-Decadienal 2408-20-0, Allyl propionate 2412-80-8, Methyl 4-methylvalerate 2444-37-3, Methylthioacetic acid 2445-76-3, Hexyl propionate 2445-77-4, 2-Methylbutyl 3-methylbutyrate 2445-78-5, 2-Methylbutyl 2-methylbutyrate 2497-18-9, trans-2-Hexenyl acetate 2555-49-9, Ethyl phenoxyacetate 2568-25-4 2639-63-6, Hexyl butyrate 2705-87-5, Allyl cyclohexanepropionate 2721-22-4, δ-Tetradecalactone 2756-56-1, Isobornyl propionate 2785-89-9, 4-Ethyl guaiacol

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT 2835-39-4 2935-90-2, Methyl 3-mercaptopropionate 3142-72-1, 2-Methyl-2-pentenoic acid 3268-49-3, Methional 3391-86-4, 1-Octen-3-ol 3488-00-4, Hexyl cinnamate 3515-94-4 3558-60-9, Methyl phenethyl ether 3658-77-3, Furaneol 3666-82-8 3681-71-8, cis-3-Hexenyl acetate 3796-70-1, Geranylacetone 3848-24-6, 2,3-Hexanedione 4187-86-4, 1-Pentyn-3-ol 4230-97-1, Allyl octanoate 4265-97-8, Heptyl octanoate 4351-10-4 4354-56-7D, Cyclohexanehexanoic acid, esters 4355-07-1D, Cyclohexanedecanoic acid, esters 4358-59-2 4441-63-8D, Cyclohexanebutyric acid, esters 4602-84-0, Farnesol 4606-15-9, Propyl phenylacetate 4630-07-3, Valencene 4674-50-4, Nootkatone 4728-82-9, Allyl cyclohexylacetate 4861-85-2, Isopropyl phenylacetate 4940-11-8, Ethyl maltol 5132-75-2, Octyl heptanoate 5146-66-7, Geranylnitrile 5205-11-8, Prenyl benzoate 5292-21-7D, Cyclohexylacetic acid, esters 5392-40-5, Citral 5405-41-4, Ethyl 3-hydroxybutyrate 5421-17-0, Hexyl phenylacetate 5441-04-3 5452-07-3 5454-09-1, Decyl butyrate 5454-28-4, Butyl heptanoate 5457-70-5, 2-Phenylethyl octanoate 5462-06-6 5466-06-8, Ethyl 3-mercaptopropionate 5471-51-2, Raspberry ketone 5837-78-5, Ethyl tiglate 5870-93-9, Heptyl butyrate 5910-89-4, 2,3-Dimethylpyrazine 5947-36-4, Pinocarveol 5962-88-9D, Cyclohexylvaleric acid, esters 5989-33-3, Linalool oxide 6032-29-7, 2-Pentanol 6222-35-1, Cyclohexyl propionate 6290-17-1 6309-51-9 6378-65-0, Hexyl hexanoate 6413-10-1 6728-26-3, trans-2-Hexenal 6776-19-8 6789-80-6, cis-3-Hexenal 6789-88-4, Hexyl benzoate 6812-78-8, Rhodinol 6901-97-9 6938-45-0, Benzyl hexanoate 7003-48-7 7011-83-8 7069-41-2, trans-2-Tridecenal 7149-26-0, Linalyl anthranilate 7335-26-4, Ethyl O-methoxybenzoate 7367-85-3 7367-88-6 7380-48-5, 3-Octenyl acetate 7388-22-9, γ-Methylionone 7452-79-1, Ethyl 2-methylbutyrate 7460-74-4, Phenylethyl valerate 7492-67-3, Citronellyloxyacetaldehyde 7493-65-4, Cyclohexanebutyric acid allyl ester 7493-66-5 7493-68-7, Allyl cyclohexanevalerate 7493-74-5, Allyl phenoxyacetate 7493-78-9, α-Amylcinnamyl acetate 7549-33-9, Anisyl propionate 7756-96-9, Butyl anthranilate 7774-44-9, Cyclohexyl isovalerate 7778-83-8, Propyl cinnamate 7778-87-2, Propyl heptanoate 7779-23-9, Linalyl hexanoate 7779-65-9, Isoamyl cinnamate 7779-77-3, Isobutyl anthranilate 7780-06-5, Isopropyl cinnamate 7785-64-0, Butyl angelate 7785-66-2, Butyl tiglate 7786-44-9, 2,6-Nonadienol 7786-58-5 7786-61-0, 2-Methoxy-4-vinylphenol 8000-41-7, Terpineol 8007-35-0, Terpinyl acetate 10022-28-3, Octanal

dimethyl acetal 10024-64-3, Linalyl octanoate 10031-87-5, 2-Ethylbutyl acetate 10032-02-7, Geranyl hexanoate 10032-13-0, Hexyl isovalerate 10032-15-2, Hexyl 2-methylbutyrate 10094-34-5, Dimethylbenzyl carbinyl butyrate 10094-40-3, 2-Hexenyl acetate 10276-85-4, Benzyl octanoate 10340-23-5, cis-3-Nonenol 10361-39-4, Benzyl valerate 10415-87-9, 3-Methyl-1-phenyl-3-pentanol 10482-55-0, Isoamyl angelate 10482-65-2, Cinnamyl valerate 10482-79-8, Citronellyl cinnamate 10484-09-0, Allyl salicylate 10486-14-3, Rhodinyl phenylacetate 10519-07-0 10544-63-5, Ethyl crotonate 10580-24-2 10588-10-0, Isobutyl valerate 13002-08-9, Acetaldehyde diamyl acetal 13327-56-5, Ethyl 3-methylthiopropionate 13461-20-6 13466-78-9, 3-Carene 13481-87-3, Methyl 3-nonenoate 13532-18-8, Methyl 3-methylthiopropionate 13679-86-2 13706-86-0, 5-Methyl-2,3-hexanedione 13894-61-6 13894-62-7 13894-63-8 13894-64-9 15706-73-7, Butyl 2-methylbutyrate 16409-43-1, Rose oxide 16409-46-4, Menthyl isovalerate 16491-24-0, 2,4-Hexadienyl isobutyrate 16491-36-4, cis-3-Hexenyl butyrate 16630-66-3, Methyl methylthioacetate 16777-87-0 16930-96-4, Hexyl tiglate 17092-92-1, Dihydroactinidiolide 17463-01-3, Ethyl 2-nonenoate 18458-50-9 18829-55-5, trans-2-Heptenal 18829-56-6, trans-2-Nonenal 19329-89-6, Isoamyl lactate 19549-83-8 20474-93-5, Allyl crotonate 20777-39-3, Lavandulyl acetate 21188-58-9, Methyl 3-hydroxyhexanoate 21722-83-8, Cyclohexylethyl acetate 23726-91-2, β-Damascone 23726-93-4, β-Damascenone 24817-51-4, Phenylethyl 2-methylbutyrate 25152-85-6, cis-3-Hexenyl benzoate 25415-62-7, Amyl isovalerate 25415-67-2, Ethyl 4-methylvalerate 25524-95-2, Jasmine lactone 26370-28-5, 2,6-Nonadienal 26447-28-9D, Furancarboxylic acid, esters 26553-46-8 26553-47-9 27538-10-9, Homofuraneol 27625-35-0, Isoamyl 2-methylbutyrate 27829-71-6 27829-72-7 28043-10-9 28069-72-9, trans-2,cis-6-Nonadienol 28664-35-9, Sotolone 29350-73-0, Cadinene 29714-87-2, Ocimene 29811-50-5, Octyl 2-methylbutyrate 30673-36-0, Butyl decanoate 31501-11-8, cis-3-Hexenylhexanoate 31502-14-4, trans-2-Nonenol 32665-23-9, Isopropyl isovalerate 33467-73-1, cis-3-Hexenyl formate 33467-74-2, cis-3-Hexenyl propionate 33467-75-3 33809-06-2 34352-05-1 35044-63-4, α-Damascenone 35087-49-1, γ-Damascone 35154-45-1 35234-16-3 35472-56-1 35852-46-1, cis-3-Hexenyl valerate 36431-72-8, Theaspirane 36701-01-6, Furfuryl valerate 37526-88-8, Benzyl tiglate 37549-74-9, Ethyl 2,4-decadienoate 39067-80-6, Thiogeraniol 39255-32-8, Ethyl 2-methylvalerate 41453-56-9 41496-43-9, 2-Methyl-3-(4-methylphenyl)propanal 41519-23-7, cis-3-Hexenyl isobutyrate 42184-18-9 42436-07-7, cis-3-Hexenyl phenylacetate 42778-94-9 43052-87-5, α-Damascone 50607-64-2, Methyl N-2-methylpentylideneanthranilate 50980-84-2, Propylene glycol dibutyrate 51566-62-2, Citronellylnitrile 52089-55-1, Ethyl 2-hydroxyhexanoate 53046-97-2 53172-59-1, Methyl 2,4-decadienoate 53338-05-9, 4,7-Dihydro-2-isopentyl-2-methyl-1,3-dioxepin 53398-80-4, trans-2-Hexenyl propionate 53398-81-5, trans-3-Hexenyl propionate 53398-83-7, trans-2-Hexenyl butyrate 53398-84-8, trans-3-Hexenyl butyrate 53398-85-9, cis-3-Hexenyl 2-methylbutyrate 53398-86-0, trans-2-Hexenyl hexanoate 53448-07-0, trans-2-Undecenal 54306-00-2, 2-Hexenal diethyl acetal 54484-73-0, Acetaldehyde ethylhexyl acetal 56001-43-5, Nerolidyl acetate 56423-40-6, Benzyl 2-methylbutyrate 56922-82-8, trans-3-Hexenyl hexanoate 57576-09-7, Isopulegol acetate 61931-80-4 63429-28-7, β-Methylionone 63478-69-3 64187-83-3 65405-70-1, trans-4-Decenal 65405-76-7, cis-3-Hexenyl anthranilate 65405-80-3 67114-38-9, γ-Jasmolactone 67583-77-1 67715-80-4, 2-Methyl-4-propyl-1,3-oxathiane 67874-78-6 67883-79-8, cis-3-Hexenyl tiglate 68039-49-6, Triplal 68062-18-0 68133-75-5 68756-64-9, Methyl 2-hydroxyhexanoate 68760-59-8 68922-10-1, Citronellyl isovalerate 68938-58-9 69522-93-6, γ-Damascenone 69668-85-5

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

IT 69668-87-7 69727-41-9 71048-82-3, δ-Damascone 71159-90-5 71172-75-3, Isoamyl levulinate 72445-42-2, Mint sulfide 73398-85-3 73545-18-3 74367-97-8 75128-90-4 76238-22-7 78053-84-6 78609-00-4 80111-68-8, Damascone 80466-34-8, 2,4-Hexadienal 84060-80-0, cis-3-Hexenyl angelate 84788-08-9, Propyl 2,4-decadienoate 87118-95-4, 3,4,5,6,6-Pentamethyl-2-heptanol 91009-82-4, p-Menthane-2-thiol 91213-30-8 93302-56-8, α-Methylionone 93804-64-9 93892-09-2 93963-13-4 94089-21-1 94481-73-9 96849-99-9 98983-29-0 103109-24-6 108545-39-7 108545-40-0 138506-81-7, γ-Isomethylionone 141553-01-7, Menthyl propionate 156914-70-4, Koavone 175667-40-0 177771-82-3, Ambroxan 204186-56-1 487061-22-3 648434-52-0 648950-20-3, Tridecenenitrile 705948-95-4, Terpinyl isovalerate 809271-90-7 827340-61-4 827340-64-7 827340-65-8 827340-66-9 827340-67-0 827340-68-1 827340-69-2 827340-70-5 827340-71-6 827340-72-7 827340-73-8 827340-74-9 827340-75-0 827340-76-1 827340-77-2

RL: FFD (Food or feed use); BIOL (Biological study); USES (Uses)
(fruit-like flavor compns. contg. natural flavors, esters, alcs., aldehydes, acetals, ketones, ketals, phenols, ethers, lactones hydrocarbons, N-contg. and/or S-contg. compds., and/or acids)

L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN

IC ICM G01N033-44

INCL 424009600; 436085000

CC 36-4 (Physical Properties of Synthetic High Polymers)
Section cross-reference(s): 80

TI Detection and functionalization of dendrimers

ST dendrimer unreacted termini functionalization detection method

IT Dendritic polymers

RL: ANT (Analyte); ANST (Analytical study)
(method for detection of unreacted termini of dendrimers)

IT 10401-59-9, 9-Anthryldiazomethane

RL: RGT (Reagent); RACT (Reactant or reagent)
(detecting agent; method for detection of unreacted termini of dendrimers)

IT 59085-15-3P 821767-01-5P 821767-02-6P 821767-03-7P

RL: ANT (Analyte); IMF (Industrial manufacture); ANST (Analytical study); PREP (Preparation)
(method for detection of unreacted termini of dendrimers)

IT 100884-80-8P, 1,3,5,7-Adamantanetetracarboxylic acid 189084-25-1P 189084-26-2P

RL: ANT (Analyte); IMF (Industrial manufacture); RCT (Reactant); ANST (Analytical study); PREP (Preparation); RACT (Reactant or reagent)
(method for detection of unreacted termini of dendrimers)

IT 189084-29-5P 189084-30-8P 189084-31-9P 189084-33-1P 189146-06-3P

RL: IMF (Industrial manufacture); PREP (Preparation)
(method for detection of unreacted termini of dendrimers)

IT 1444-05-9P 4423-86-3P 6940-58-5P, 1,3,5-Pentanetricarboxylic acid 16430-32-3P, 9-Anthrylmethyl Acetate 134282-98-7P, 1,3,3,5-Pentanetetracarboxylic acid

RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(method for detection of unreacted termini of dendrimers)

IT 105-53-3, Diethyl malonate **107-13-1**, Acrylonitrile, reactions 2873-74-7, Glutaryl chloride 136586-99-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(method for detection of unreacted termini of dendrimers)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
IC ICM C07D213-57
ICS C07C255-41; A61K031-44; A61P037-06
CC 27-16 (Heterocyclic Compounds (One Hetero Atom))
Section cross-reference(s): 1, 25, 63
TI Diarylmethyl and diheteroarylmethyl derivatives as potassium channel modulators, and their preparation, pharmaceutical compositions, and use as immunosuppressive agents
ST diarylmethyl diheteroarylmethyl potassium channel modulator SK IK immunosuppressant prepn; pyridinyl fluorophenyl alkanoate deriv prepn immunosuppressant potassium channel blocker
IT Antibodies and Immunoglobulins
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(antilymphocyte globulins, pharmaceutical compns. also contg.; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT Potassium channel
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(calcium-activated intermediate and small conductance, pharmaceutical compns. also contg.; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT Transplant and Transplantation
(graft-vs.-host reaction, treatment of; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT Antibodies and Immunoglobulins
Corticosteroids, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical compns. also contg.; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT Ion channel blockers
(potassium; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT Human
Immunosuppressants
(prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT Transplant rejection
(treatment of; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT 221340-01-8P, Ethyl 4-cyano-4,4-bis(4-fluorophenyl)butyrate
824933-00-8P, 2,2-Bis(4-fluorophenyl)succinamide 824933-01-9P,
3-Cyano-3,3-bis(4-fluorophenyl)propionic acid 824933-02-0P,
p-Toluensulfonic acid 2-cyano-2,2-bis(4-fluorophenyl)ethyl ester
824933-03-1P, Methyl 4-cyano-4,4-bis(pyridin-2-yl)butyrate 824933-04-2P,
2-[[(2-Fluorophenyl)bis(4-fluorophenyl)methyl]sulfanyl]-N-hydroxyacetamidine 824933-05-3P, Methyl 4-cyano-2-methyl-4,4-bis(pyridin-2-yl)butyrate 824933-06-4P, 2-(4-Fluorophenyl)-2-[4-nitro-3-(trifluoromethyl)phenyl]-3-(pyridin-2-yl)propionitrile
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(drug candidate; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT 361540-77-4, Calcineurin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(pharmaceutical compns. also contg. inhibitors of; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel

modulators and immunosuppressants)
IT 50-18-0, Cyclophosphamide 50-35-1, Thalidomide 55-98-1, Busulfan 58-05-9, Folinic acid 59-05-2, Methotrexate 83-43-2, Methylprednisolone 305-03-3, Chlorambucil 6493-05-6, Oxpentifylline 8064-90-2, Cotrimoxazole 12633-72-6, Amphotericin 62683-29-8, Colony-stimulating factor 79217-60-0, Cyclosporin 82410-32-0, Ganciclovir 83150-76-9, Octreotide 86386-73-4, Fluconazole 104987-11-3, Tacrolimus 141483-72-9, Zolimomabaritox
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(pharmaceutical compns. also contg.; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
IT 80-62-6, Methyl methacrylate **96-33-3**, Methyl acrylate 98-59-9, Tosyl chloride 140-88-5, Ethyl acrylate 393-09-9, 4-Fluoro-6-(trifluoromethyl)nitrobenzene 37742-99-7, Di-(p-fluorophenyl)ethanenitrile 75389-08-1, Di(pyridin-2-yl)ethanenitrile 566884-49-9, 1,2-Dicyano-2,2-di(p-fluorophenyl)ethane 566884-73-9, [[(2-Fluorophenyl)bis(4-fluorophenyl)methyl]sulfanyl]acetonitrile 824933-07-5, 2-Cyano-2,2-di(p-fluorophenyl)ethanol 824933-08-6, 2-(4-Fluorophenyl)-3-(pyridin-2-yl)propionitrile
RL: RCT (Reactant); RACT (Reactant or reagent)
(starting material; prepn. of diarylmethyl and diheteroarylmethyl derivs. as potassium channel modulators and immunosuppressants)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 17-1 (Food and Feed Chemistry)
Section cross-reference(s): 5, 15
TI Enzyme-linked immunosorbent assay for the organophosphorus insecticide fenthion. Influence of hapten structure
ST fenthion organophosphorus insecticide wine hapten ELISA
IT Food contamination
Wine analysis
(ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT Haptens
RL: ARU (Analytical role, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
(ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT Ovalbumin
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
(conjugates with hapten; ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT Haptens
RL: ARU (Analytical role, unclassified); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
(conjugates, with ovalbumin; ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT Immunoassay
(enzyme-linked immunosorbent assay; ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT Insecticides
(organophosphorus; ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT Antibodies and Immunoglobulins
RL: ARG (Analytical reagent use); ANST (Analytical study); USES (Uses)
(polyclonal; ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT Wine
(white; ELISA for organophosphorus insecticide fenthion and influence

of hapten structure)
IT 3364-88-3P 848486-51-1P 848486-53-3P 848486-55-5P 848486-56-6P 848486-57-7P 848486-58-8P 848486-59-9P 848486-61-3P
RL: ARU (Analytical role, unclassified); PRP (Properties); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation)
(ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT 41372-29-6P 408340-62-5P 848486-50-0P 848486-52-2P 848486-54-4P 848486-60-2P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT 56-12-2, 4-Amino butyric acid, reactions 96-32-2, Methyl bromoacetate **96-33-3**, Methyl acrylate 108-30-5, Succinic anhydride, reactions 637-89-8, 4-Mercaptophenol 1498-64-2, Ethyl dichlorothiophosphate 2524-03-0, Dimethyl chlorothiophosphate 2623-87-2, 4-Bromobutanoic acid 3120-74-9, 4-(Methylthio)-m-cresol 6232-88-8, α-Bromo-p-toluic acid 14660-52-7, Ethyl 5-bromovalerate 25542-62-5, Ethyl 6-bromohexanoate
RL: RCT (Reactant); RACT (Reactant or reagent)
(ELISA for organophosphorus insecticide fenthion and influence of hapten structure)
IT 55-38-9, Fenthion
RL: AGR (Agricultural use); ANT (Analyte); POL (Pollutant); ANST (Analytical study); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(ELISA for the organophosphorus insecticide fenthion. Influence of hapten structure)
L2 37621 ANSWERS HCAPLUS COPYRIGHT 2005 ACS on STN
CC 59-5 (Air Pollution and Industrial Hygiene)
Section cross-reference(s): 45
TI Model To Obtain the True Parameters of Decomposition of Volatile Liquids Such as Acrylonitrile and Nitromethane
ST volatile org liq thermal decompn true parameter model; safety volatile org liq thermal decompn true parameter model; explosion hazard org liq thermal decompn true parameter model; runaway reaction org liq thermal decompn true parameter model
IT Calorimetry
(differential, high-pressure; model for obtaining the true parameters of decompn. of volatile liqs. such as acrylonitrile and nitromethane)
IT Accidental explosion
(hazard; model for obtaining the true parameters of decompn. of volatile liqs. such as acrylonitrile and nitromethane)
IT Decomposition
Decomposition enthalpy
Energy balance
Environmental modeling
Evaporation
Industrial hygiene
Mass balance
Mass transfer
Safety
Simulation and Modeling, physicochemical
Thermal decomposition
(model for obtaining the true parameters of decompn. of volatile liqs. such as acrylonitrile and nitromethane)
IT Volatile organic compounds
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); RCT (Reactant); TEM (Technical or engineered material use); PROC

(Process); RACT (Reactant or reagent); USES (Uses)
(model for obtaining the true parameters of decompn. of volatile liqs. such as acrylonitrile and nitromethane)
IT Volatile substances
(org.; model for obtaining the true parameters of decompn. of volatile liqs. such as acrylonitrile and nitromethane)
IT Reaction
(runaway; model for obtaining the true parameters of decompn. of volatile liqs. such as acrylonitrile and nitromethane)
IT 75-52-5, reactions **107-13-1**, Acrylonitrile, reactions
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); RCT (Reactant); TEM (Technical or engineered material use); PROC (Process); RACT (Reactant or reagent); USES (Uses)
(model for obtaining the true parameters of decompn. of volatile liqs. such as acrylonitrile and nitromethane)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)0

=> file reg

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	2.53	2.74

FILE 'REGISTRY' ENTERED AT 16:31:26 ON 13 MAY 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0
DICTIONARY FILE UPDATES: 12 MAY 2005 HIGHEST RN 850400-93-0

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Crossover limits have been increased. See HELP CROSSOVER for details.

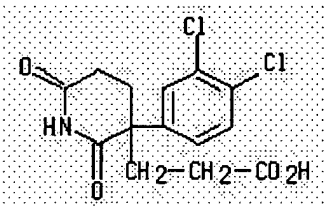
Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d his

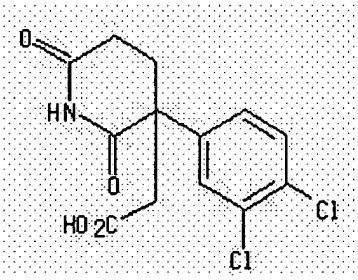
(FILE 'HOME' ENTERED AT 16:30:23 ON 13 MAY 2005)

```
     FILE 'HCAPLUS' ENTERED AT 16:30:33 ON 13 MAY 2005
L1             1 S 127:278145/DN
                 SEL RN
L2         37621 S E1-E22

     FILE 'REGISTRY' ENTERED AT 16:31:26 ON 13 MAY 2005

=> s l2
               1 107-13-1/BI
                   (107-13-1/RN)
               1 146396-10-3/BI
                   (146396-10-3/RN)
               1 176044-72-7/BI
                   (176044-72-7/RN)
               1 178371-54-5/BI
                   (178371-54-5/RN)
               1 188937-87-3/BI
                   (188937-87-3/RN)
               1 196800-80-3/BI
                   (196800-80-3/RN)
               1 196800-81-4/BI
                   (196800-81-4/RN)
               1 196800-82-5/BI
                   (196800-82-5/RN)
               1 196800-83-6/BI
                   (196800-83-6/RN)
               1 196800-84-7/BI
                   (196800-84-7/RN)
               1 196800-85-8/BI
                   (196800-85-8/RN)
               1 196800-86-9/BI
                   (196800-86-9/RN)
               1 196800-87-0/BI
                   (196800-87-0/RN)
               1 196800-88-1/BI
                   (196800-88-1/RN)
               1 196800-89-2/BI
                   (196800-89-2/RN)
               1 196800-90-5/BI
                   (196800-90-5/RN)
               1 196800-91-6/BI
                   (196800-91-6/RN)
               1 196800-92-7/BI
                   (196800-92-7/RN)
               1 196800-93-8/BI
                   (196800-93-8/RN)
               1 3218-49-3/BI
                   (3218-49-3/RN)
               1 65619-22-9/BI
                   (65619-22-9/RN)
               1 96-33-3/BI
                   (96-33-3/RN)
L3            22 (107-13-1/BI OR 146396-10-3/BI OR 176044-72-7/BI OR 178371-54-5/
                  BI OR 188937-87-3/BI OR 196800-80-3/BI OR 196800-81-4/BI OR
                  196800-82-5/BI OR 196800-83-6/BI OR 196800-84-7/BI OR 196800-85-
                  8/BI OR 196800-86-9/BI OR 196800-87-0/BI OR 196800-88-1/BI OR
                  196800-89-2/BI OR 196800-90-5/BI OR 196800-91-6/BI OR 196800-92-
                  7/BI OR 196800-93-8/BI OR 3218-49-3/BI OR 65619-22-9/BI OR 96-33
                  -3/BI)
```

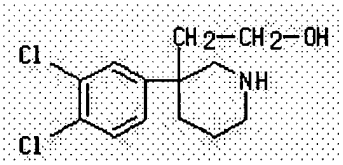
```
=> d scan

L3   22 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   3-Piperidinepropanoic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo- (9CI)
MF   C14 H13 Cl2 N O4
```




```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**


HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)21

L3   22 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   3-Piperidineacetic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo-, (-)- (9CI)
MF   C13 H11 Cl2 N O4

Rotation (-).
```

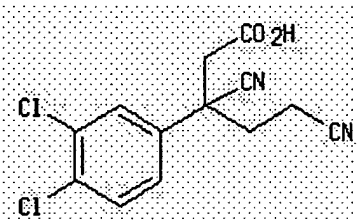



```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L3   22 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   3-Piperidineethanol, 3-(3,4-dichlorophenyl)- (9CI)
MF   C13 H17 Cl2 N O
```



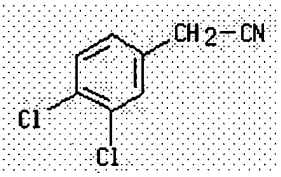

```
**PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT**

L3   22 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   Benzenepropanoic acid, 3,4-dichloro-β-cyano-β-(2-cyanoethyl)-,
     (-)- (9CI)
MF   C13 H10 Cl2 N2 O2
CI   COM
```

Rotation (-).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

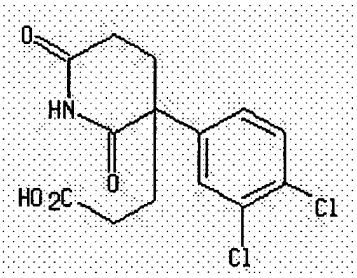
L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzeneacetonitrile, 3,4-dichloro- (9CI)
MF C8 H5 Cl2 N



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

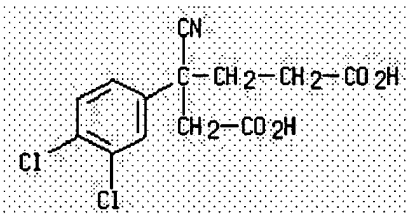
L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3-Piperidinepropanoic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo-, (+)- (9CI)
MF C14 H13 Cl2 N O4
CI COM

Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

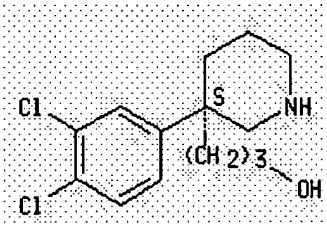
L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Hexanedioic acid, 3-cyano-3-(3,4-dichlorophenyl)- (9CI)
MF C13 H11 Cl2 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3-Piperidinepropanol, 3-(3,4-dichlorophenyl)-, (3S)- (9CI)
MF C14 H19 Cl2 N O
CI COM

Absolute stereochemistry. Rotation (+).

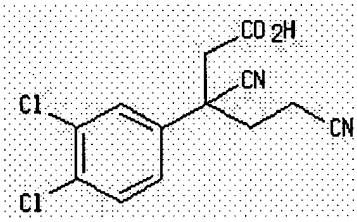


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Cinchonan-9-ol, (8α,9R)-, mono[(-)-3,4-dichloro-β-cyano-β-(2-cyanoethyl)benzenepropanoate] (salt) (9CI)
MF C19 H22 N2 O . C13 H10 Cl2 N2 O2

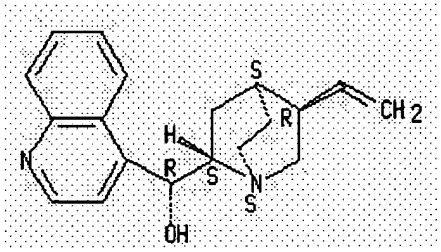
CM 1

Rotation (-).

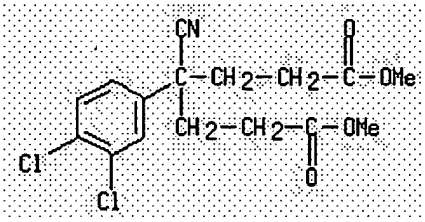


CM 2

Absolute stereochemistry.



L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Heptanedioic acid, 4-cyano-4-(3,4-dichlorophenyl)-, dimethyl ester (9CI)
MF C16 H17 Cl2 N O4

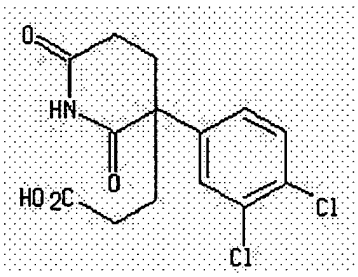


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Cinchonan-9-ol, 6'-methoxy-, (8α,9R)-, mono[(+)-3-(3,4-dichlorophenyl)-2,6-dioxo-3-piperidinepropanoate] (salt) (9CI)
MF C20 H24 N2 O2 . C14 H13 Cl2 N O4

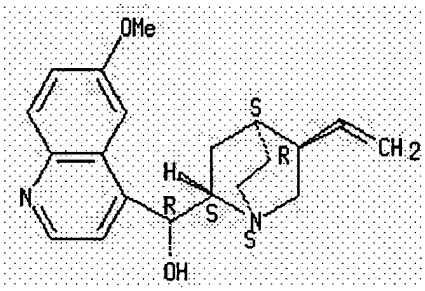
CM 1

Rotation (+).

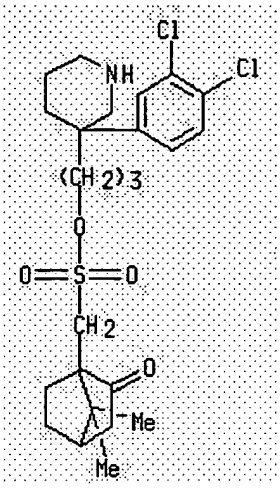


CM 2

Absolute stereochemistry.

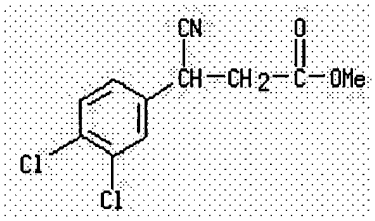


L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Bicyclo[2.2.1]heptane-1-methanesulfonic acid, 7,7-dimethyl-2-oxo-, 3-[3-(3,4-dichlorophenyl)-3-piperidinyl]propyl ester (9CI)
MF C24 H33 Cl2 N O4 S



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

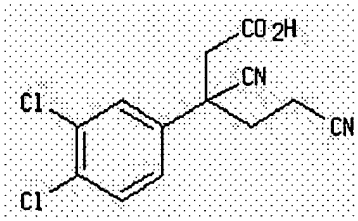
L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzenepropanoic acid, 3,4-dichloro-β-cyano-, methyl ester (9CI)
MF C11 H9 Cl2 N O2



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzenepropanoic acid, 3,4-dichloro-β-cyano-β-(2-cyanoethyl)-, (+)- (9CI)
MF C13 H10 Cl2 N2 O2

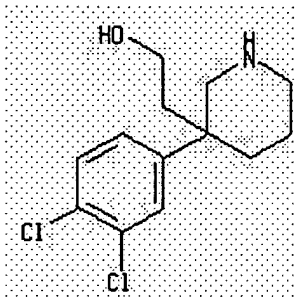
Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

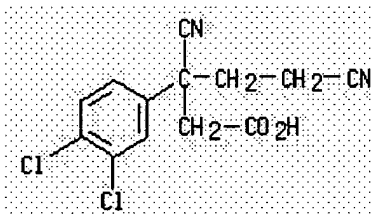
L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3-Piperidineethanol, 3-(3,4-dichlorophenyl)-, (-)- (9CI)
MF C13 H17 Cl2 N O
CI COM

Rotation (-).



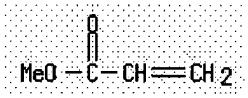
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzenepropanoic acid, 3,4-dichloro-β-cyano-β-(2-cyanoethyl)- (9CI)
MF C13 H10 Cl2 N2 O2



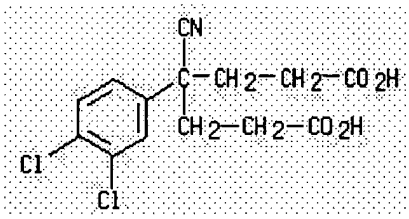
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Propenoic acid, methyl ester (9CI)
MF C4 H6 O2
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

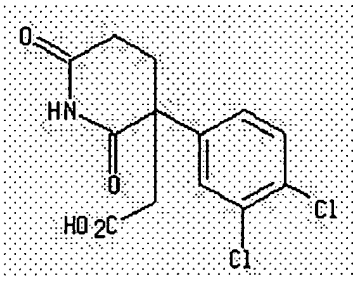
L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Heptanedioic acid, 4-cyano-4-(3,4-dichlorophenyl)- (9CI)
MF C14 H13 Cl2 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

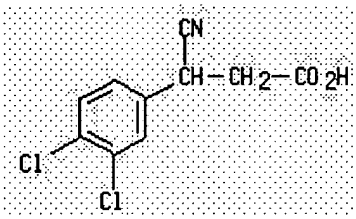
L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3-Piperidineacetic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo-, (+)- (9CI)
MF C13 H11 Cl2 N O4

Rotation (+).



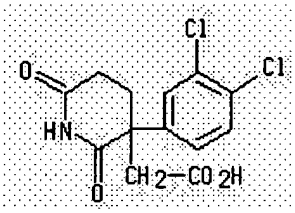
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN Benzenepropanoic acid, 3,4-dichloro-β-cyano- (9CI)
MF C10 H7 Cl2 N O2



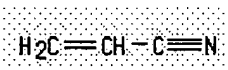
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 3-Piperidineacetic acid, 3-(3,4-dichlorophenyl)-2,6-dioxo- (9CI)
MF C13 H11 Cl2 N O4



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L3 22 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Propenenitrile (9CI)
MF C3 H3 N
CI COM



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=>